

1 BILL NO. S-85-05- 24

2 SPECIAL ORDINANCE NO. S- 92-85

3 AN ORDINANCE approving City Utilities
4 Purchase Order Number A-44377, by the
5 City of Fort Wayne by and through its
6 Department of Purchasing and Crown
7 Battery, for the City Utilities Garage.

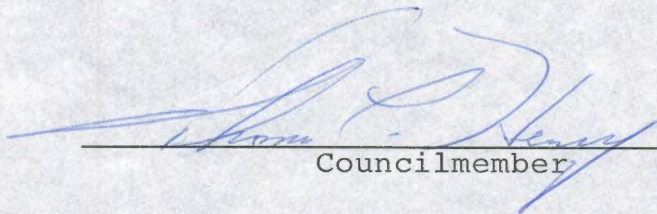
8 NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF
9 THE CITY OF FORT WAYNE, INDIANA:

10 SECTION 1. That City Utilities Purchase Order Number
11 A-44377, between the City of Fort Wayne, by and through its City
12 Utilities, and the Department of Purchasing and Crown Battery, for
13 the City Utilities Garage, respectfully for:

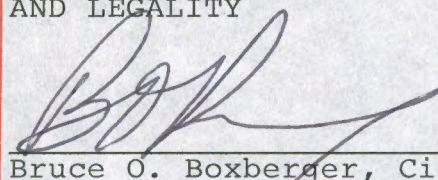
14 the awarding of a bid with respect to
15 the purchase of automotive batteries
16 for the City Utilities Garage;

17 involving an approximate cost (for one year) of Ten Thousand and
18 No/100 Dollars (\$10,000.00), all as more particularly set forth in
19 said Purchase Order, which is on file in the Office of the Depart-
20 ment of Purchasing, and is by reference incorporated herein, made
21 a part hereof, and is hereby in all things ratified, confirmed and
22 approved.

23 SECTION 2. That this Ordinance shall be in full force
24 and effect from and after its passage, and any and all necessary
25 approval by the Mayor.

26 
27 Councilmember

28 APPROVED AS TO FORM
29 AND LEGALITY

30 
31 Bruce O. Boxberger, City Attorney
32

Read the first time in full and on motion by _____, seconded by _____, and duly adopted, read the second time by title and referred to the Committee: City of Fort Wayne (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne Indiana, on _____, the _____ day of _____, 19____, at _____ o'clock _____ .M., E.S

DATE: 5-14-85 Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Henry, seconded by Stier, and duly adopted, placed on its passage. PASSED (LOST) by the following vote:

	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAINED</u>	<u>ABSENT</u>	<u>TO-WIT:</u>
<u>TOTAL VOTES</u>	<u>9</u>	_____	_____	_____	_____
<u>BRADBURY</u>	<u>✓</u>	_____	_____	_____	_____
<u>BURNS</u>	<u>✓</u>	_____	_____	_____	_____
<u>EISBART</u>	<u>✓</u>	_____	_____	_____	_____
<u>GiaQUINTA</u>	<u>✓</u>	_____	_____	_____	_____
<u>HENRY</u>	<u>✓</u>	_____	_____	_____	_____
<u>REDD</u>	<u>✓</u>	_____	_____	_____	_____
<u>SCHMIDT</u>	<u>✓</u>	_____	_____	_____	_____
<u>STIER</u>	<u>✓</u>	_____	_____	_____	_____
<u>TALARICO</u>	<u>✓</u>	_____	_____	_____	_____

DATE: 5-28-85 Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (ANNEXATION) ~~(APPROPRIATION)~~ (GENERAL)

(SPECIAL) (ZONING MAP) ORDINANCE (RESOLUTION) NO. 1-92-85
on the 28th day of May, 1985,

ATTEST: Sandra E. Kennedy (SEAL) Mark E. GiaQuinta
SANDRA E. KENNEDY, CITY CLERK PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 29th day of May, 1985, at the hour of 11:30 o'clock 4 .M., E.S.T.

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 29th day of May, 1985, at the hour of 3:00 o'clock P .M., E.S.T.

Win Moses, Jr.
WIN MOSES, JR., MAYOR

FORM FWPO-1
APPROVED BY THE
STATE BOARD OF
ACCOUNTS FOR
CITY UTILITIES AND
CIVIL CITY OF
FORT WAYNE 1980

City of Fort Wayne

DEPARTMENT OF PURCHASES
NUMBER ONE EAST MAIN STREET, ROOM 940
FORT WAYNE, IN 46802

MAIL ALL CORRESPONDENCE, CLAIM VOUCHERS, ETC., TO:

CITY UTILITIES GARAGE 330
1705 S LAFAYETTE ST
FORT WAYNE IN 46803

CROWN BATTERY MFG CO 5916-01
3000 E. WASHINGTON BLVD.
FORT WAYNE IN 46803

DELIVER TO: DEPART-
MENT OR DIVISION

CITY UTILITIES GARAGE
1705 S. LAFAYETTE STREET
FORT WAYNE IN 46803

PURCHASE ORDER NUMBER

A- 44377

DATE 05/09/85

REQ. NO. 00132

THE ABOVE INFORMATION MUST APPEAR ON ALL INVOICES,
BILLS OF LADING, DELIVERY TICKETS, PACKAGES AND
CORRESPONDENCE.

INVOICE IN DUPLICATE

CIVIL CITY

XX

CITY UTILITIES

APPROPRIATION AND FUND NUMBER 7-02-803-G15-44-239

CASH DISCOUNT TERMS % IF PAID WITHIN DAYS FROM DELIVERY AND
ACCEPTANCE OF GOODS OR PERFORMANCE OF SERVICES. (DEDUCTION FOR DISCOUNT SHOWN BELOW)

U044377

CM

N/A

QUANTITY ORDERED	UNIT	MATERIALS, SUPPLIES OR SERVICES	UNIT PRICE	AMOUNT
1	BKT	<p>TAX EXEMPT (UNLESS OTHERWISE INDICATED)</p> <p>*001 BLANKET P.O. PER SPECS BID #732</p> <p>THIS DOCUMENT IS A BLANKET PURCHASE AUTHORIZATION COVERING PURCHASES BY THE CITY UTILITIES GARAGE.</p> <p>THESE PURCHASES WILL BE LIMITED TO AUTOMOTIV BATTERIES PER THE SPECIFICATIONS IN BID #732</p> <p>TERM OF AGREEMENT IS FROM 6/1/85 TO 12/31/85</p> <p>THE ACCUMULATED PURCHASES DURING THE ABOVE TERM SHALL NOT EXCEED THE AMOUNT OF \$5000.00</p> <p>EACH RELEASE FOR A PURCHASE BY THE BUYER MUST CONTAIN THE BLANKET PURCHASE ORDER NUMBER AND THE SELLERS INVOICES MUST REFERENCE THE BLANKET PURCHASE ORDER NUMBER TO BE VALID FOR PAYMENT.</p> <p>THIS BLANKET PURCHASE ORDER MAY BE CANCELLED AT ANY TIME BY THE PURCHASING DEPARTMENT.</p> <p>SUBJECT TO COUNCILMANIC APPROVAL: ORDINANCE NO: _____ DATE: _____</p>	5000.00	5000.00
FOR INFORMATION: PURCHASING 219-427-1101			TOTAL	5000.00

COMPLIANCE WITH THE
DELIVERY DATE RE-
QUESTED WILL AVOID
"FOLLOW UP" CORRE-
SPONDENCE.

UNLESS OTHERWISE INDI-
CATED THE PRICES SHOWN
INCLUDE ALL CHARGES
FOR DELIVERY, PACKING,
ETC., NECESSARY TO COM-
PLETE DELIVERY TO DES-
TINATION SPECIFIED.

NOTE

READ
INSTRUCTIONS ON
THE BACK OF THIS
ORDER

THE CONTRACTOR OR VENDOR,
BY ACCEPTING THIS ORDER,
AGREES TO THE GENERAL CON-
DITIONS AND TERMS OF AGREE-
MENT ON THE BACK OF THIS OR-
DER.

UNLESS OTHERWISE INDICATED,
THE PRICES SHOWN DO NOT IN-
CLUDE TAXES OF ANY KIND.

EXEMPTION BLANKS WILL BE
FURNISHED WHEN NECESSARY.
INDIANA SALES TAX EXEMPTION
CERTIFICATE NUMBER
034508-03

IF THIS ORDER DOES NOT
AGREE WITH YOUR QUO-
TATION KINDLY RETURN
IT WITH AN EXPLANA-
TION.

I HEREBY CERTIFY THAT THE COST OF THE ABOVE PURCHASE IS FULLY COVERED BY
UNENCUMBERED BALANCES IN THE ABOVE FUNDS AND THAT THE EXPENDITURE THERE-
FORE HAS BEEN DULY AUTHORIZED AND APPROPRIATED.

CITY CONTROLLER

I HEREBY CERTIFY UPON MY OWN PERSONAL KNOWLEDGE THAT THIS ORDER IS AUTHOR-
IZED BY A PROPERLY EXECUTED AND APPROVED REQUISITION ON FILE IN THIS OFFICE.

DIRECTOR OF PURCHASES

DEPARTMENT OF PURCHASES
Number One Main St., Ft. Wayne, Ind. 46802
INVITATION

Conditional, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Conditions shall include all charges for delivery, packing, etc. Answer your reply as indicated below.

*Mail all replies and correspondence, etc. to Attn. of Carol Offerle: 427-1101 DEPARTMENT OF PURCHASES

Room 940, Number One Main St., Ft. Wayne, Ind. 46802

REQUIRED FOR DELIVERY TO:

Department
or Division City Utilities Garage

1705 South Lafayette

Address Fort Wayne, Indiana 46803

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing

Time of Bid February 26, 1985 at 10:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 34464. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 13 on reverse hereof for details.

TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total Amount
		Automotive Battery Requirements for the City of Fort Wayne through the end of February, 1986 (per the attached specifications: see page 11 of 18).		
		Motorcraft Battery's are being bid at 20% discount off wholesaler price of the attached form #B40C dated sept. 1, 1984:		
AFFIRMATIVE ACTION: ON FILE <u>yes</u> ATTACHED <u> </u>				

Bid Bond required ☐ NO ☒ YES \$500.00 Performance Bond ☒ NO ☐ YES
See Instruction Item No. 13 on reverse side hereof.
Terms 0 % cash discount if paid within days from delivery and acceptance of goods or completion of services.

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applying and at the prices as opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within days from receipt of order.

IMPORTANT ☒

As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

See Form

Anthony Motor Parts Corp.

Richard E. Beck

Address 101 South Clinton Street

City Fort Wayne

Don't

Page 1 of 18

Ref. No. 732

Date 2/1/85

Date wanted 2/26/85

Fund
Appropriation No.

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

SUGGESTED WHOLESALE PRICE SCHEDULE

MAINTENANCE FREE BATTERIES

DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED		DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED		DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED	
		LIST	WHS.			LIST	WHS.			LIST	WHS.
21	MFR-21	72.00	48.97	27F	MF-27F	88.05	59.87	62	MF-62	88.25	60.00
22F	MF-22FC	74.05	50.35	27F	MFR-27F	76.05	51.71	63	MF-63	92.55	62.93
22F	MFR-22FC	63.00	42.83	31	MF-31	162.35	110.40T	64	MF-64	101.65	69.13
24C	MF-24C	86.05	58.51	31	MF-31A	166.05	112.92T	64	MF-64A	108.10	73.53
24C	MFR-24C	72.00	48.97	31	MF-31AS	166.05	112.92T	71	MF-71	79.85	54.29
24F	MF-24F	86.05	58.51	31	MF-31S	162.35	110.40T	71	MFR-71	70.55	47.99
24F	MFR-24F	72.00	48.97	57	MF-57	84.35	57.35	72	MF-72	90.95	61.84
27C	MF-27C	88.05	59.87	58	MF-58	86.05	58.51	73	MFR-73	74.05	50.35
27C	MFR-27C	76.05	51.71	58	MF-58A	88.05	59.87	74	MF-74	88.05	59.87
27C	MF-27CA	113.05	76.87	61	MF-61	82.35	56.00	74	MFR-74	74.05	50.35

DRY CHARGE BATTERIES

DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED		DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED		DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED	
		LIST	WHS.			LIST	WHS.			LIST	WHS.
42	E-42	73.80	50.19	22F	R-22FCA	62.85	42.75	4	V-4	101.40	68.97T
42	E-42F	75.75	51.51	23	R-23	75.75	51.51	1	1HG	55.70	37.87
22F	G-22FC	70.00	47.61	24C	R-24C	64.00	43.53	19L	1LS	50.00	34.01
24C	G-24C	82.05	55.79	24C	R-24CA	71.10	48.37	18	1LSH	55.70	37.87
24F	G-24F	82.05	55.79	24C	R-24CB	71.80	48.84	1	1MS	56.75	38.61
24	G-24M	95.40	64.88	24F	R-24F	64.00	43.53	1	1MST	52.05	35.40
27C	G-27C	84.05	57.15	24F	R-24FA	72.55	49.35	2E	2E	56.00	38.09
27F	G-27F	84.05	57.15	24	R-24M	84.55	57.49	GC2	2GC	101.40	68.96
72	G-72	78.05	53.07	27C	R-27C	70.00	47.61	GC2	2GCA	107.70	73.25
74	G-74	84.05	57.15	27C	R-27CA	83.25	56.61	2	2HG	62.75	42.67
1	GN-1	47.15	32.08	27F	R-27F	72.00	48.97	2N	2HN	56.00	38.09
2	GN-2	47.15	32.08	27F	R-27FA	72.00	48.97	2L	2LG	55.70	37.87
2E	GN-2E	47.15	32.08	29HR	R-29HR	101.30	68.89	3EE	3EE	68.30	46.45
22F	GN-22FC	56.00	38.09	29NF	R-29NF	69.80	47.47	3EH	3EHA-172	109.05	74.16
24C	GN-24C	56.00	38.09	30H	R-30H95	131.15	89.20	3ET	3HE	96.05	65.31
24F	GN-24F	56.00	38.09	32N	R-32N	75.75	51.51	4D	4DA	205.30	139.61T
24	GN-24M	77.10	52.43	43	R-43	70.00	47.61	4DLT	4DLT	167.85	114.16
29NF	GN-29NF	63.70	43.33	54	R-54	69.80	47.47	4EH	4EH	123.95	84.29
74	GN-74	56.00	38.09	55	R-55	74.40	50.61	5D	5DA	113.25	77.01T
U1	LU-7	49.40	33.61	56	R-56	80.05	54.43	7D	7DA	127.55	86.75T
U1	LU-9	53.30	36.25	60	R-60	74.40	50.61	8D	8DA	239.70	163.01T
1	R-1	61.40	41.77	64	R-64	85.90	58.43	8D	8DAT	250.10	170.07T
2	R-2	84.05	57.15T	72	R-72	66.00	44.89	8D	8DB	311.35	211.71T
3	R-3	90.05	61.23	74	R-74	68.00	46.25	22NF	10HN	63.25	43.01
4	R-4	107.35	73.01	77	R-77	91.15	62.00	16TF	16TF	170.05	115.64
22F	R-22FC	58.00	39.45	U1	SM-9	63.45	43.17	17TF	17TF	120.05	81.65

ACCESSORIES AND ELECTROLYTE

PART NUMBER	DESCRIPTION	PACKAGE QUANTITY	LIST	WHS.
BB-14*	QUIK-PAK Electrolyte 5 Gallon (with hose & clamp)	1	9.20	5.04
BB-16	Electrolyte 1.54 Gallon (with Hose)	1	4.40	2.26
BB-40	Tiltite Spillproof Battery Caps	24	1.45	.64 ea.

*Minimum Contents 4.95 Gallons

MOTORCRAFT INTERCHANGE

Tested Tough Line to Previous Line

TESTED TOUGH BATTERY NO.	REPLACES
BA-24	R-24C, GN-24C
BA-24F	GN-24F
BA-74	GN-74
BH-1	R-1, 1MS, 1HG, GN-1
BH-2	R-2, 2HG, GN-2
BH-3EE	3EE
BH-3EH	3EHA-172
BH-3ET	3HE
BH-4	R-4, V-4
BH-4D	4DA
BH-4DLT	4DLT
BH-7D	7DA
BH-8D	8DA, 8DB
BH-22NF	10HN
BH-24M*	G-24M, R-24CB
BH-27A	MF-27CA
BH-29H	R30H-95, MF-31, MF-31A
BH-29NF	R-29NF
BH-31	MF-31S, MF-31AS
BH-GC2	2GC, 2GCA
BH-U1	LU-7, LU-9
BR-21	MFR-21
BR-22F	MFR-22FC, GN-22FC, R-22FC
BR-24	MFR-24C, R-24CA
BR-24F	MFR-24F, R-24F, R-23
BR-42	E-42
BR-42F	E-42F
BR-45	NONE-NEW
BR-56	R-54, R-55, R-56
BR-61	MF-61
BR-62	MF-62
BR-71	MF-71, MFR-71, R-72
BR-74	R-74, MFR-74
BX-22F	MF-22FC, G-22FC, R-22FCA
BX-24	MF-24C, G-24C
BX-24F	MF-24F, G-24F, R-24FA
BX-24FA	MF-24F
BX-27	R-27C, MF-27C, MFR-27C, G-27C
BX-27F	G-27F, MF-27F, MFR-27F, R-27F, R-27FA, R-29HR
BX-33	NONE-NEW
BX-41	NONE-NEW
BX-58	MF-57, MF-58
BX-58A	MF-58A
BX-63	MF-63
BX-64	MF-64, R-64
BX-64A	MF-64A
BX-65	NONE-NEW
BX-71	MFR-73, G-72
BX-72	NONE-NEW
BX-74	MF-74, G-74, R-77

*Check terminal height to hood clearance.

Motorcraft QUALITY PARTS
FOR ALL MAKES OF CARS AND TRUCKS

**TESTED TOUGH BATTERY
SUGGESTED WHOLESALE PRICE LIST**

BATTERY PART NO.	MONTHS OF ADJUSTED SERVICE	AVAILABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES			
				USER EXCH.	RETAILER	WHOLESALE 1-24	FACTORY TO WHOLESALE DROP SHIP— 25 +
BA-24	40	W/D	325	45.90	41.27	36.73	
BA-24F	40	W/D	325	45.90	41.27	36.73	
BA-74	40	W/D	325	45.90	41.27	36.73	
BH-1	30	D	545	59.45	53.49	47.61	
BH-2	30	D	575	45.90	41.27	36.73	
BH-3EE	30	D	375	59.45	53.49	47.61	
BH-3EH	30	D	825	79.85	71.85	63.95	
BH-3ET	30	D	475	76.45	68.80	61.23	
BH-4	30	D	775	76.45	68.80	61.23	
BH-4D	30	D	750	141.00	126.88	112.92	
BH-4DLT	30	D	760	150.30	135.29	120.41	
BH-7D	30	D	875	90.90	81.79	72.79	
BH-8D	30	D	1000	172.40	155.16	138.09	
BH-22NF	30	D	330	45.00	40.51	36.05	
BH-24M	20	W	515	78.15	70.33	62.59	
BH-27A	30	W	700	121.40	109.27	97.25	
BH-29H	30	W	645	81.55	73.38	65.31	
BH-29NF	30	D	425	60.30	54.27	48.30	
BH-31	30	W	625	90.90	81.79	72.79	
BG-GC2	20	W	100 (1)	91.70	82.55	73.47	
BH-U1	20	D	215	39.05	35.16	31.29	
BR-21	50	W/D	330	57.75	51.98	46.26	
BR-22F	50	W/D	330	46.70	42.03	37.41	
BR-24	50	W/D	445	52.65	47.38	42.17	
BR-24F	50	W/D	445	52.65	47.38	42.17	
BR-42	50	W/D	365	62.85	56.56	50.34	
BR-42F	50	W/D	365	73.05	65.73	58.50	
BR-45	50	W/D	420	62.85	56.56	50.34	
BR-56	50	W/D	505	64.55	58.10	51.71	
BR-61	50	W	310	69.90	62.92	56.00	
BR-62	50	W	380	76.86	69.17	61.56	
BR-71	50	W/D	395	52.65	47.38	42.17	
BR-74	50	W/D	445	52.65	47.38	42.17	
BX-22F	60	W/D	390	54.35	48.91	43.53	
BX-24	60	W/D	525	62.00	55.80	49.66	
BX-24F	60	W/D	525	62.00	55.80	49.66	
BX-24FA	60	W	500	79.10	71.18	63.35	
BX-27	60	W/D	530	63.70	57.33	51.02	
BX-27F	60	W/D	530	63.70	57.33	51.02	
BX-33	60	W	1050	162.21	145.99	129.93	
BX-41	60	W	570	84.90	76.44	68.03	
BX-58	60	W	410	74.75	67.26	59.86	
BX-58A	60	W	450	82.39	74.15	65.99	
BX-63	60	W	450	78.55	70.72	62.94	
BX-64	60	W	475	89.15	80.26	71.43	
BX-64A	60	W	535	95.10	85.61	76.19	
BX-65	60	W	850	132.49	119.29	106.12	
BX-71	60	W/D	455	62.00	55.80	49.66	
BX-72	60	D	490	93.42	84.08	74.83	
BX-74	60	W/D	525	68.80	61.91	55.10	

(1) 100 minutes @ 75 amps.

Motorcraft QUALITY PARTS

BATTERY PART NUMBER CROSS REFERENCE

REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.
MFR-21	BR-21	G-24F	BX-24F	R-43	None
MF-22FC	BX-22F	G-24M	BH-24M	R-54	BR-56
MFR-22FC	BR-22F	G-27C	BX-27	R-55	BR-56
MF-24C	BX-24	G-27F	BX-27F	R-56	BR-56
MFR-24C	BR-24	G-72	BX-71	R-60	None
MF-24F	BX-24F	G-74	BX-74	R-64	BX-64
MF-24FA	BX-24FA	GN-1	BH-1	R-72	BR-71
MFR-24F	BR-24F	GN-2	BH-2	R-74	BR-74
MF-27C	BX-27	GN-2E	None	R-77	BX-74
MF-27CA	BX-27	GN-22FC	BR-22F	V-4	BH-4
MFR-27C	BX-27	GN-24C	BA-24	1HG	BH-1
MF-27F	BX-27F	GN-24F	BA-24F	1LS	None
MFR-27F	BX-27F	GN-74	BA-74	1MS	BH-1
MF-31	BH-29H	LU-7	BH-U1	2E	None
MF-31A	BH-29H	LU-9	BH-U1	2GC	BH-GC2
MF-31AS	BH-31	R-1	BH-1	2GCA	BH-GC2
MF-31S	BH-31	R-2	BH-2	2HG	BH-2
MF-57	BX-58	R-3	None	2HN	None
MF-58	BX-58	R-4	BH-4	2LG	None
MF-58A	BX-58	R-22FC	BR-22F	3EE	BH-3EE
MF-61	BR-61	R-22FCA	BX-22F	3EHA-172	BH-3EH
MF-62	BX-63	R-23	BR-24F	3HE	BH-3ET
MF-63	BX-63	R-24C	BA-24	4DA	BH-4D
MF-64	BX-64	R-24CA	BR-24	4DLT	BH-4DLT
MF-64A	BX-64A	R-24CB	BR-24	4EH	None
MF-71	BR-71	R-24F	BR-24F	5DA	None
MFR-71	BR-71	R-24FA	BX-24F	7DA	BH-7D
MFR-73	BX-71	R-27C	BX-27	8DA	BH-8D
MF-74	BX-74	R-27CA	BX-27	8DAT	None
MFR-74	BR-74	R-27F	BX-27F	8DB	BH-8D
MF-27CA	BH-27A	R-27FA	BX-27F	10HN	BH-22NF
E-42	BR-42	R-29HR	BX-27F	16TF	None
E-42F	BR-42F	R-29NF	BH-29NF	17TF	None
G-22FC	BX-22F	R-30H-95	BH-29H		
G-24C	BX-24	R-32N	None		



TESTED TOUGH BATTERY SUGGESTED USER EXCHANGE PRICE LIST

BATTERY PART NO.	MONTHS OF ADJ. SERVICE	AVAIL- ABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES
				USER EXCH.
BA-24	40	W/D	325	45.90
BA-24F	40	W/D	325	45.90
BA-74	40	W/D	325	45.90
BH-1	30	D	545	59.45
BH-2	30	D	575	45.90
BH-3EE	30	D	375	59.45
BE-3EH	30	D	825	79.85
BH-3ET	30	D	475	76.45
BH-4	30	D	775	76.45
BH-4D	30	D	750	141.00
BH-4DLT	30	D	760	150.30
BH-7D	30	D	875	90.90
BH-8D	30	D	1000	172.40
BH-22NF	30	D	330	45.00
BH-24M	20	W	515	78.15
BH-27A	30	W	700	121.40
BH-29H	30	W	645	81.55
BH-29NF	30	D	425	60.30
BH-31	30	W	625	90.90
BH-GC2	20	W	100 (1)	91.70
BH-U1	20	D	215	39.05
BR-21	50	W/D	330	57.75
BR-22F	50	W/D	330	46.70
BR-24	50	W/D	445	52.65
BR-24F	50	W/D	445	52.65

BATTERY PART NO.	MONTHS OF ADJ. SERVICE	AVAIL- ABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES
				USER EXCH.
BR-42	50	W/D	365	62.85
BR-42F	50	W	365	73.05
BR-45	50	W/D	420	62.85
BR-56	50	W/D	505	64.55
BR-61	50	W	310	69.90
BR-62	50	W	380	76.86
BR-71	50	W/D	395	52.65
BR-74	50	W/D	445	52.65
BX-22F	60	W/D	390	54.35
BX-24	60	W/D	525	62.00
BX-24F	60	W/D	525	62.00
BX-24FA	60	W	500	79.10
BX-27	60	W/D	530	63.70
BX-27F	60	W/D	530	63.70
BX-33	60	W	1050	162.21
BX-41	60	W	525	84.90
BX-58	60	W	410	74.75
BX-58A	60	W	450	82.39
BX-63	60	W	450	78.55
BX-64	60	W	475	89.15
BX-64A	60	W	535	95.10
BX-65	60	W	850	132.49
BX-71	60	W/D	455	62.00
BX-72	60	D	490	93.42
BX-74	60	W/D	525	68.80

(1) 100 minutes @ 75 amps.

WARRANTY ADJUSTMENT INFORMATION

If a failure occurs within the months of adjusted service period, the owner will pay a percentage of the replacement cost based on the Motorcraft price (fleet price for fleet users) at the time of adjustment. The adjustment table is shown on the battery warranty label.

Motorcraft QUALITY PARTS

BATTERY PART NUMBER CROSS REFERENCE

REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.
MFR-21	BR-21	G-24F	BX-24F	R-43	None
MF-22FC	BX-22F	G-24M	BH-24M	R-54	BR-56
MFR-22FC	BR-22F	G-27C	BX-27	R-55	BR-56
MF-24C	BX-24	G-27F	BX-27F	R-56	BR-56
MFR-24C	BR-24	G-72	BX-71	R-60	None
MF-24F	BX-24F	G-74	BX-74	R-64	BX-64
MF-24FA	BX-24FA	GN-1	BH-1	R-72	BR-71
MFR-24F	BR-24F	GN-2	BH-2	R-74	BR-74
MF-27C	BX-27	GN-2E	None	R-77	BX-74
MF-27CA	BX-27	GN-22FC	BR-22F	V-4	BH-4
MFR-27C	BX-27	GN-24C	BA-24	1HG	BH-1
MF-27F	BX-27F	GN-24F	BA-24F	1LS	None
MFR-27F	BX-27F	GN-74	BA-74	1MS	BH-1
MF-31	BH-29H	LU-7	BH-U1	2E	None
MF-31A	BH-29H	LU-9	BH-U1	2GC	BH-GC2
MF-31AS	BH-31	R-1	BH-1	2GCA	BH-GC2
MF-31S	BH-31	R-2	BH-2	2HG	BH-2
MF-57	BX-58	R-3	None	2HN	None
MF-58	BX-58	R-4	BH-4	2LG	None
MF-58A	BX-58	R-22FC	BR-22F	3EE	BH-3EE
MF-61	BR-61	R-22FCA	BX-22F	3EHA-172	BH-3EH
MF-62	BX-63	R-23	BR-24F	3HE	BH-3ET
MF-63	BX-63	R-24C	BA-24	4DA	BH-4D
MF-64	BX-64	R-24CA	BR-24	4DLT	BH-4DLT
MF-64A	BX-64A	R-24CB	BR-24	4EH	None
MF-71	BR-71	R-24F	BR-24F	5DA	None
MFR-71	BR-71	R-24FA	BX-24F	7DA	BH-7D
MFR-73	BX-71	R-27C	BX-27	8DA	BH-8D
MF-74	BX-74	R-27CA	BX-27	8DAT	None
MFR-74	BR-74	R-27F	BX-27F	8DB	BH-8D
MF-27CA	BH-27A	R-27FA	BX-27F	10HN	BH-22NF
E-42	BR-42	R-29HR	BX-27F	16TF	None
E-42F	BR-42F	R-29NF	BH-29NF	17TF	None
G-22FC	BX-22F	R-30H-95	BH-29H		
G-24C	BX-24	R-32N	None		

MOTORCRAFT BATTERY LIMITED WARRANTY

FOR "TESTED TOUGH" BATTERIES

The label shown below will be attached to Motorcraft "Tested Tough" batteries. Batteries with this label are warranted by Ford Motor Company to the consumer. The terms and conditions of the warranty are shown on the label.

When a Motorcraft battery is purchased, it is important that the tear-off portion of the label is removed by the owner or installer. The owner's name, address, and date of purchase are to be filled in and the card should be attached to the owner's proof-of-purchase invoice and placed in the vehicle glove compartment. Both items must be furnished in case of subsequent battery failure.

CLAIM HANDLING PROCEDURES FOR DEALERS, WHOLESALEERS AND FLEETS

Batteries presented for warranty must be properly tested and recharged if necessary to determine whether they are serviceable. Batteries that are discharged-only or that have been stored without use or recharging in distributor/jobber inventory are not eligible for replacement under warranty.

When a battery is not serviceable, the owner is to receive as a replacement an equivalent Motorcraft battery on a gratis (no cost) or pro rata basis as described on the label. An example of determining the owner's cost for a pro rata claim - more than three months of service - is shown below.

i-24 - 15 months of service

Owner's Percentage Replacement Cost (on battery label)		Present Published User Exchange Price		Consumer Replacement Pro Rata Cost
38%	X	\$45.90	=	\$17.44

This example reflects a consumer replacement pro rata adjustment. For a fleet or commercial battery, the fleet/commercial percentage replacement cost and published price should be used.

Dealers, Wholesaleers and Fleets are to submit supporting documents to Motorcraft Warehouse Distributors, National Accounts and Special Market Accounts to obtain warranty on Motorcraft batteries. These Motorcraft accounts will in turn submit claims to Ford Parts and Service Division for reimbursement.

Motorcraft
 BATTERY LIMITED WARRANTY
 This Motorcraft battery is warranted by Ford Motor Co. to the original purchaser for the time shown above when it is used in a private passenger car or light truck. If the battery fails to hold a charge due to a defect in material or workmanship it should be returned to a Motorcraft retailer or wholesaler. THIS CARD AND YOUR DATED PURCHASE INVOICE ARE REQUIRED FOR WARRANTY REPLACEMENT.

PART NO. **BA-24** ADJ. PERIOD **40 MO.**

Name _____ Date Purchased _____
 (Date Installed for Service Fleet)

Address _____ City _____ State _____

If a claim occurs, the owner will pay a percentage of the replacement cost based on the Motorcraft user exchange price (Retail price for fleet users, at the time of the adjustment). Shown below are the adjustment tables for privately owned passenger cars and light trucks and fleet, farm, marine and other commercial vehicles.

Mo. After Purch.	0-3	4-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40
Owner's Percentage Replacement Cost	0%	13%	25%	38%	50%	63%	75%	88%	97%
Car/L. Truck	0%	13%	25%	38%	50%	63%	75%	88%	97%
Fleet/Commercial	0%	25%	50%	75%	97%	Farm, Marine & Other Com.			

IMPORTANT: Further Warranty information is on the reverse side of this card.
 NOTE: Detach ☐ KEEP with your purchase invoice

Motorcraft
POISON/DANGER
CAN PRODUCE EXPLOSIVE GASES AND CAUSE SEVERE BURNS
Sulfuric acid electrolyte. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. EYES—Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes away. Do not produce sparks with cable clamps or tools. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries. Keep vent caps tight and level.
KEEP OUT OF REACH OF CHILDREN

PART III

BA-24
COLD CRANKING AMPS

325
RESERVE CAPACITY

70
RESERVE CAPACITY

DIST. BY FORD MOTOR CO.
 DEARBORN, MICH. 48121

SERIAL NUMBER
A 106791

The Motorcraft Limited Battery Warranty does not cover:

- Failure as a result of use in applications other than those recommended in Motorcraft catalogs
- Damage to case, cover or terminals caused by abuse, negligence, freezing or improper installation
- Cost of recharging or use of a rental battery
- Labor to remove and replace battery in the vehicle
- To the extent allowed by law, loss of time, inconvenience, loss of use of the vehicle or other consequential damages

THERE IS NO OTHER EXPRESS WARRANTY ON MOTORCRAFT BATTERIES.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THE WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Inquiries concerning this warranty should be directed to:

Warranty Administration, Ford Parts and Service Division
 1800 Schaefer Road Dearborn, Michigan 48121

(Reverse Side of Warranty Card)

BATTERY SPECIFICATION CHART

MULTI-GEN PARTS
FOR ALL MAKES OF CARS AND TRUCKS

BCI GROUP SIZE	MOTORCRAFT TESTED TOUGH PART NO.	PLATES PER CELL	COLD CRANKING AMPS (AT 0°F)	RESERVE CAPACITY (MINUTES)	MAXIMUM DIMENSIONS INCHES (MILLIMETERS)			APPROXIMATE WEIGHT, LBS. (KG)	
					LENGTH	WIDTH	HEIGHT	DRY	WET
TESTED TOUGH 80 SUPER HEAVY DUTY BATTERIES									
12 Volt Post Terminals									
22F	BX-22F	9	390	85	9-13/32 (238.7)	6-27/32 (173.8)	8-3/16 (207.5)	21 (9.53)	31 (14.06)
24	BX-24	12	525	120	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	30 (13.61)	40 (18.14)
24F	BX-24F	12	525	120	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	30 (13.61)	40 (18.14)
24F	BX-24FA	13	500	120	10-3/4 (273.1)	6-7/8 (174.2)	8-15/16 (227.1)	—	43 (19.50)
27	BX-27	12	530	126	12 (305.8)	6-27/32 (173.4)	8-21/32 (219.5)	31 (14.06)	43 (19.50)
27F	BX-27F	12	530	126	12-1/2 (316.7)	6-27/32 (173.4)	8-21/32 (219.5)	31 (14.06)	43 (19.50)
33	BX-33	22	1050	165	13-5/16 (338.1)	6-17/32 (158.0)	9-1/2 (241.3)	—	60 (27.21)
41	BX-41	15	525	98	11-17/32 (292.4)	6-7/8 (174.3)	6-27/32 (173.8)	—	36 (16.33)
58	BX-58	12	410	82	9-7/16 (239.0)	7-7/32 (183.0)	6-31/32 (176.7)	—	34 (15.42)
58	BX-58A	13	450	90	9-7/16 (239.7)	7-7/32 (183.4)	6-31/32 (177.0)	—	36 (16.33)
63	BX-63	13	450	90	10-3/16 (257.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	39 (17.69)
64	BX-64	13	475	120	11-9/16 (295.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	44 (19.96)
64	BX-64A	15	535	105	11-9/16 (295.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	44 (19.96)
65	BX-65	20	850	140	11-1/8 (282.5)	7-3/16 (182.6)	7-9/16 (192.1)	—	48 (21.77)
12 Volt Side Terminals									
71	BX-71	10	455	76	8 (203.0)	7-5/32 (181.6)	8-3/16 (207.6)	26 (11.79)	32 (14.52)
72	BX-72	11	490	102	9-1/16 (230)	7-1/16 (179)	8-1/4 (210)	35 (15.88)	—
74	BX-74	12	525	120	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	30 (13.61)	40 (18.14)
TESTED TOUGH 50 PREMIUM HEAVY DUTY BATTERIES									
12 Volt Post Terminals									
21	BR-21	8	330	63	8 (203.0)	6-25/32 (172.2)	8-19/32 (218.2)	22 (9.98)	28 (12.70)
22F	BR-22F	8	330	68	9-13/32 (238.8)	6-27/32 (173.8)	8-3/16 (207.5)	21 (9.53)	29 (13.15)
24	BR-24	10	445	100	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	26 (11.79)	37 (16.78)
24F	BR-24F	10	445	100	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	26 (11.79)	37 (16.78)
42	BR-42	11	365	71	9-21/32 (244.6)	6-7/8 (174.8)	6-21/32 (169.2)	22 (9.98)	28 (12.70)
	BR-42F	11	365	65	9-13/16 (248.9)	6-7/8 (174.8)	7-1/4 (183.9)	26 (11.79)	35 (15.88)
45	BR-45	12	420	80	9-13/32 (233.7)	5-15/32 (138.9)	8-3/4 (222.2)	24 (10.87)	31 (14.06)
56	BR-56	13	505	86	10 (253.5)	6-1/32 (152.9)	8-1/32 (211.1)	25 (11.34)	33 (14.97)
61	BR-61	9	310	60	7-19/32 (192.2)	6-3/8 (161.5)	8-7/8 (225.0)	—	28 (12.70)
62	BR-62	11	380	75	8-15/16 (225.2)	6-7/16 (163.5)	8-7/8 (225)	—	34 (15.42)
12 Volt Side Terminals									
71	BR-71	9	395	78	8 (203.0)	7-5/32 (181.6)	8-3/16 (207.6)	23 (10.40)	30 (13.59)
74	BR-74	10	445	100	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	27 (12.23)	37 (16.76)
TESTED TOUGH 40 PREMIUM BATTERIES									
12 Volt Post Terminals									
24	BA-24	8	325	70	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	22 (9.98)	34 (15.42)
24F	BA-24F	8	325	70	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	22 (9.98)	34 (15.42)
12 Volt Side Terminals									
74	BA-74	8	325	80	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	23 (10.43)	35 (15.69)
TESTED TOUGH HEAVY DUTY COMMERCIAL BATTERIES									
12 Volt									
4D	BH-4D	21	750	260	20-3/4 (527.0)	8-3/4 (222.3)	9-9/16 (242.9)	78 (35.38)	—
8D	BH-8D	29	1000	390	20-3/4 (527.0)	11 (279.4)	9-9/16 (242.9)	104 (47.11)	—
27	BH-27A	12	700	150	12 (305.8)	6-27/32 (173.5)	8-21/32 (219.5)	—	51 (23.13)
29H/30H	BH-29H	16	645	162	13 (329.4)	6-25/32 (172.2)	9-3/8 (237.5)	—	51 (23.13)
31	BH-31	17	625	160	13 (329.4)	6-25/32 (172.2)	9-3/8 (237.5)	—	58 (26.31)
6 Volt									
1	BH-1	15	545	155	8-15/16 (226.5)	6-27/32 (173.3)	8-25/32 (222.8)	23 (10.41)	—
2	BH-2	16	575	174	10-9/32 (260.9)	7 (177.7)	9-3/32 (230.9)	25 (11.32)	—
4	BH-4	23	775	260	12-5/8 (320.4)	7 (177.7)	9-1/8 (231.3)	33 (14.94)	—
7D	BH-7D	27	875	360	16-8/32 (411.3)	7-1/32 (178.2)	9 (228.6)	50 (22.65)	—
TESTED TOUGH FARM, COMMERCIAL & SPECIALTY BATTERIES									
12 Volt									
3EE	BH-3EE	11	375	98	19-9/32 (489.7)	4-9/32 (108.7)	8-21/32 (219.2)	36 (16.30)	—
3ET	BH-3ET	13	475	145	19-9/32 (489.7)	4-9/32 (108.7)	9-19/32 (243.1)	45 (20.38)	—
4DLT	BH-4DLT	29	760	265	20 (507.3)	8-3/16 (207.5)	8 (203.2)	75 (33.97)	—
22NF	BH-22NF	10	330	68	9-13/32 (233.8)	5-15/32 (138.9)	8-3/4 (222.3)	21 (11.13)	—
24	BH-24M	12	515	128	11-1/8 (282.5)	6-27/32 (173.5)	9-5/32 (232.4)	—	45 (20.38)
29NF	BH-29NF	13	425	100	13 (329.4)	5-1/2 (140.7)	8-15/16 (226.8)	27 (12.23)	—
U1	BH-U1	9	215	45	7-25/32 (197.3)	5-3/16 (131.7)	7-1/8 (180.2)	17 (7.70)	—
6 Volt									
3EH	BH-3EH	25	825	310	19-9/32 (489.7)	4-9/32 (108.7)	9-25/32 (248.4)	46 (20.84)	—
GC2	BH-GC2	19	100 Min. @ 75A	—	10-3/8 (265.3)	7-3/16 (182.3)	10-1/2 (266.7)	—	—

**NOTE: THE BATTERIES IN THE FOLLOWING
SECTION HAVE BEEN REPLACED BY THE TESTED
TOUGH BATTERY LINE. PRICES AND
SPECIFICATIONS ARE PROVIDED HERE
FOR REFERENCE ONLY.**

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPEATED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

MOTORCRAFT BATTERY USER EXCHANGE PRICE SCHEDULE

MAINTENANCE FREE BATTERIES

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
				LIST	EXCH.
60 Months					
22F	400	85	MF-22FC	74.05	71.05
24C	500	115	MF-24C	86.05	83.05
24F	500	115	MF-24F	86.05	83.05
27C	560	140	MF-27C	88.05	85.05
27C	700	150	MF-27CA	113.05	110.05
27F	560	140	MF-27F	88.05	85.05
57	310	60	MF-57	84.35	81.35
58	380	75	MF-58	86.05	83.05
58	410	82	MF-58A	88.05	85.05
61	310	60	MF-61	82.35	79.35
62	380	75	MF-62	88.25	85.25
63	450	90	MF-63	92.55	89.55
64	475	120	MF-64	101.65	98.65
64	535	105	MF-64A	108.10	105.10
71	360	75	MF-71	79.85	76.85
72	430	95	MF-72	90.95	87.95

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
				LIST	EXCH.
50 Months					
74	500	115	MF-74	88.05	85.05
45 Months					
21	330	68	MFR-21	72.00	69.00
22F	330	67	MFR-22FC	63.00	60.00
24C	410	75	MFR-24C	72.00	69.00
24F	410	75	MFR-24F	72.00	69.00
27C	485	95	MFR-27C	76.05	73.05
27F	485	95	MFR-27F	76.05	73.05
71	290	60	MFR-71	70.55	67.55
73	390	80	MFR-73	74.05	71.05
74	410	75	MFR-74	74.05	71.05
36 Months					
31	570	140	MF-31	162.35	—
31	700	170	MF-31A	166.05	—
31	700	170	MF-31AS	166.05	—
31	570	160	MF-31S	162.35	—

DRY CHARGE BATTERIES

Months of Adjusted Service	PREMIUM HEAVY DUTY						PREMIUM						STANDARD					
	60 Months						45 Months						36 Months					
	BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)
					LIST	EXCH.				LIST	EXCH.				LIST	EXCH.		
2F		370	93	G-22FC	70.00	67.00	310	75	R-22FC	58.00	55.00	230	52	GN-22FC	56.00	53.00		
							370	93	R-22FCA	62.85	59.85							
3							410	105	R-23	75.75	72.75							
4C		470	130	G-24C	82.05	79.05	290	75	R-24C	64.00	61.00	230	52	GN-24C	56.00	53.00		
							380	100	R-24CA	71.10	68.10							
							420	118	R-24CB	71.80	68.80							
4F		470	130	G-24F	82.05	79.05	380	100	R-24F	64.00	61.00	230	52	GN-24F	56.00	53.00		
							460	120	R-24FA	72.55	69.55							
7C		530	159	G-27C	84.05	81.05	390	106	R-27C	70.00	67.00							
							475	138	R-27CA	83.25	80.25							
7F		530	159	G-27F	84.05	81.05	450	125	R-27F	72.00	69.00							
							470	130	R-27FA	72.00	69.00							
9HR							520	163	R-29HR	101.30	98.30							
9NF							300	73	R-29NF	69.80	66.80	245	53	GN-29NF	63.70	61.70		
2H							580	163	R-30H95	131.15	128.15							
2N							345	95	R-32N	75.75	72.75							
3							395	120	R-43	70.00	67.00							
4							310	60	R-54	69.80	66.80							
5							380	75	R-55	74.40	71.40							
5							450	90	R-56	80.05	77.05							
6							310	83	R-60	74.40	71.40							
4							475	120	R-64	85.90	82.90							
9												300	63	GN-74	56.00	53.00		

12 VOLT SIDE TERMINAL BATTERIES

Months of Adjusted Service	PREMIUM HEAVY DUTY						PREMIUM					
	60 Months						45 Months					
	BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	LIST	EXCH.	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	LIST	EXCH.	COLD CRANKING AMPS (@ 0°)
	72	370	93	G-72	78.05	75.05	300	63	R-72	66.00	63.00	380
	74	470	130	G-74	84.05	81.05		100	R-74	68.00	65.00	455
	77							120	R-77	91.15	88.15	

6 VOLT BATTERIES PASSENGER CARS AND LIGHT TRUCKS

Months of Adjusted Service	PREMIUM					STANDARD				
	3 Months					3 Months				
	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
BCI GROUP				LIST	EXCH.				LIST	EXCH.
1	395	120	1HG	55.70	52.70	290	73	GN-1	47.15	45.15
2	475	150	2HG	62.95	59.95	345	93	GN-2	47.15	45.15
2E	485	160	2E	56.00	53.00	370	110	GN-2E	47.15	45.15
2L	395	120	2LG	55.70	52.70					
2N	495	170	2HN	56.00	53.00					

BATTERIES FOR IMPORT CARS

18	430	140	1LSH	55.70	52.70					
19L						365	120	1LS	50.00	47.00
22NF						245	52	10HN	63.25	60.25
42*	300	75	E42	73.80	70.80					
42*	350	95	E42F	75.75	72.75					

*48 Months of adjusted service.

TRACTOR BATTERIES

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP.	PART NO.	SUGGESTED	
				LIST	EXCH.
1	440	140	1MS	56.75	—
	345	93	1MST	52.05	—
3EH	830	340	3EHA-172	109.05	—
3ET	425	120	3HE	96.05	—
4DLT	760	280	4DLT	167.85	—
4EH	880	420	4EH	123.95	—
17TF	395	120	17TF	120.05	—

SNOWMOBILE LIGHT UTILITY AND LAWNMOWER

BCI GROUP	COLD CRANKING AMPS	RES. CAP.	PART NO.	SUGGESTED	
				LIST	EXCH.
U1	160	23	LU-7	49.40	47.40
U1	200	32	LU-9	53.30	51.30
U1	200	32	SM-9	63.45	61.45

OFF-ROAD EQUIPMENT — HEAVY DUTY TRUCK AND BUS

1	545	185	R-1	61.40	58.40
2	650	235	R-2	84.05	81.05
3	650	235	R-3	90.05	—
4	720	280	R-4	107.35	—
	700	290	V-4	101.40	—

GOLF CART — INDUSTRIAL

	75 Amp Discharge (MIN.)				
GC2	90	200	2GC	101.40	—
	110	215	2GCA	107.70	—

DIESEL ENGINE STARTING BATTERIES

4D	700	290	4DA	205.30	—
5D	830	340	5DA	113.25	—
7D	900	430	7DA	127.55	—
8D	900	430	8DA	239.70	—
	900	430	8DAT	250.10	—
	1000	395	8DB	311.35	—
16TF	640	240	16TF	170.05	—

12 VOLT OUTBOARD MARINE

24	315	73	GN-24M	72.10	74.10
	470	135	G-24M	95.40	92.40
	390	100	R-24M	84.55	81.55

ACCESSORIES AND ELECTROLYTE

PART NUMBER	DESCRIPTION	PACKAGE QUANTITY	LIST
BB-14*	QUIK-PAK Electrolyte 5 Gallon (with hose & clamp)	1	9.20
BB-16	Electrolyte 1.54 Gallon (with Hose)	1	4.40
BB-40	Tiltite Spillproof Battery Caps	24	1.45 List Each

*Minimum Contents 4.95 Gallons

**TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE
FOR REFERENCE ONLY.**

(REFER TO SEPARATE TABLE FOR O.E. PRO RATA ADJUSTMENT)

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
E-42	48	1.54	24	3.08
E-42F	48	1.58	24	3.16
G-22FC	60	1.17	30	2.33
G-24C	60	1.37	30	2.74
G-24F	60	1.37	30	2.74
G-24M	—	—	24	3.98
G-27C	60	1.40	30	2.80
G-27F	60	1.40	30	2.80
G-72	60	1.30	30	2.60
G-74	60	1.40	30	2.80
GN-1	36	1.31	18	2.62
GN-2	36	1.31	18	2.62
GN-2E	36	1.31	18	2.62
GN-3EE	36	1.73	18	3.46
GN-22FC	36	1.56	18	3.11
GN-24C	36	1.56	18	3.11
GN-24F	36	1.56	18	3.11
GN-24M	—	—	12	6.43
GN-29NF	36	1.77	18	3.54
GN-74	36	1.56	18	3.11
LU-7	—	—	12	4.12
LU-9	—	—	12	4.44
MFR-21	48	1.50	24	3.00
MF-22FC	60	1.23	30	2.47
MFR-22FC	48	1.31	24	2.63
MF-24C	60	1.43	30	2.87
MFR-24C	48	1.50	24	3.00
MF-24F	60	1.43	30	2.87
MFR-24F	48	1.50	24	3.00
MF-27C	60	1.47	30	2.94
MF-27CA	60	1.88	30	3.77
MFR-27C	48	1.58	24	3.17
MF-27F	60	1.47	30	2.94
MFR-27F	48	1.58	24	3.17
MF-31	—	—	36	4.51
MF-31A	—	—	36	3.14
MF-31AS	—	—	36	3.14
MF-31S	—	—	36	4.51
MF-57	60	1.41	30	2.81
MF-58	60	1.43	30	2.87
MF-58A	60	1.47	30	2.94
MF-61	60	1.37	30	2.75
MF-62	60	1.47	30	2.94
MF-63	60	1.54	45	3.09
MF-64	60	1.69	30	3.39
MF-64A	60	1.80	30	3.60
MF-71	60	1.33	30	2.66
MFR-71	48	1.47	24	2.94
MF-72	60	1.52	30	3.03
MFR-73	48	1.54	24	3.09
MF-74	60	1.47	30	2.94
MFR-74	48	1.54	24	3.09
R-1	—	—	24	2.56
R-2	—	—	24	3.50
R-3	—	—	36	1.76
R-4	—	—	36	2.98
R-4R-15(8V)	—	—	24	4.61
R-22FC	48	1.21	24	2.42
R-22FCA	48	1.31	24	2.62
R-22FCB	48	1.49	24	2.98
R-22HF	48	1.49	24	2.98
R-22HFA	48	1.50	24	3.00

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
R-23	48	1.58	24	3.16
R-24C	48	1.33	24	2.67
R-24CA	48	1.48	24	2.96
R-24CB	48	1.50	24	2.99
R-24F	48	1.33	24	2.67
R-24FA	48	1.51	24	3.02
R-24FB	48	1.49	24	2.98
R-24M	—	—	18	4.70
R-27C	48	1.46	24	2.92
R-27CA	48	1.73	24	3.47
R-27F	48	1.50	24	3.00
R-27FA	48	1.50	24	3.00
R-27FB	48	1.61	24	3.23
R-29HR	48	2.11	24	4.22
R-29NF	48	1.45	24	2.91
R-30H-95	48	2.73	24	5.46
R-32N	48	1.58	24	3.16
R-43	48	1.46	24	2.92
R-53	48	1.45	24	2.91
R-54	48	1.45	24	2.91
R-55	48	1.55	24	3.10
R-56	48	1.67	24	3.34
R-60	48	1.55	24	3.10
R-64	48	1.79	24	3.58
R-72	48	1.38	24	2.75
R-74	48	1.42	24	2.83
R-74A	48	1.75	24	3.50
R-77	48	1.90	24	3.80
SM-9	—	—	12	5.29
V-3	—	—	24	3.71
V-4	—	—	24	4.23
1HG	36	1.55	18	3.09
1LS	36	1.39	18	2.78
1LSH	36	1.55	18	3.09
1MS	—	—	24	2.36
1MST	—	—	24	2.17
2E	36	1.56	18	3.11
2GC	—	—	18	5.63
2GCA	—	—	24	4.49
2HG	36	1.74	18	3.49
2HN	36	1.56	18	3.11
2LG	36	1.55	18	3.09
3EE	36	1.90	18	3.79
3EHA-172	—	—	24	4.54
3HE	—	—	24	4.00
4DA	—	—	24	8.55
4DLT	—	—	36	4.66
4EH	—	—	36	3.44
5DA	—	—	24	4.72
6DA	—	—	24	9.08
7DA	—	—	24	5.31
8DA	—	—	24	9.99
8DAT	—	—	24	7.21
8DB	—	—	24	12.97
10HN	36	1.76	18	3.51
16TF	—	—	24	4.94
17TF	—	—	36	3.33

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN RECYCLED BY THE
TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE
FOR REFERENCE ONLY.

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
E-42F	36	2.10	24	3.08
G-24F	36	2.28	24	3.42
MF-22FC	36	2.06	24	3.09
MF-24F	36	2.39	24	3.59
MF-27F	36	2.45	24	3.67
MF-31	—	—	36	4.51
MF-31A	—	—	36	4.61
MF-31AS	—	—	36	4.61
MF-31S	—	—	36	4.51
MF-57	36	2.34	24	3.51
MF-58	36	2.39	24	3.59
MF-58A	36	2.39	24	3.59

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
MF-61	36	2.29	24	3.43
MF-62	36	2.46	24	3.66
MF-63	36	2.57	24	3.86
MF-64	36	2.62	24	4.23
MF-64A	36	3.00	24	4.50
R-24F	36	1.78	24	2.67
R-24FA	36	2.01	24	3.02
R-27F	36	2.00	24	3.00
R-27FA	36	2.00	24	3.00
R-54	36	1.94	24	2.91
R-55	36	2.07	24	3.10
R-56	36	2.22	24	3.34
R-64	36	2.39	24	3.58

MAINTENANCE FREE BATTERY SPECIFICATION CHART

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			WEIGHT (LBS.)
		LENGTH	WIDTH	HEIGHT	
MF-22FC	12	9-1/2	6-13/16	8-15/32	38.3
MFR-22FC	12	9-1/2	6-27/32	8-15/32	29
MF-24C	12	10-9/32	6-13/16	9-1/16	46.8
MFR-24C	12	10-9/32	6-27/32	9-1/16	35
MF-24F	12	10-3/4	6-13/16	9-1/16	46.8
MFR-24F	12	10-3/4	6-27/32	9-1/16	35
MF-27C	12	12-1/16	6-13/16	9-1/16	55.8
MFR-27C	12	12-1/16	6-27/32	9-1/16	41
MF-27F	12	12-1/2	6-13/16	9-1/16	55.9
MFR-27F	12	12-1/32	6-27/32	9-1/16	41
MF-31	12	13-3/32	7-1/8	9-3/4	65.3
MF-31A	12	13-3/32	7-1/8	9-3/4	73.8
MF-31AS	12	13-3/32	7-1/8	9-13/16	73.8
MF-31S	12	13-3/32	7-1/8	9-13/16	65.3

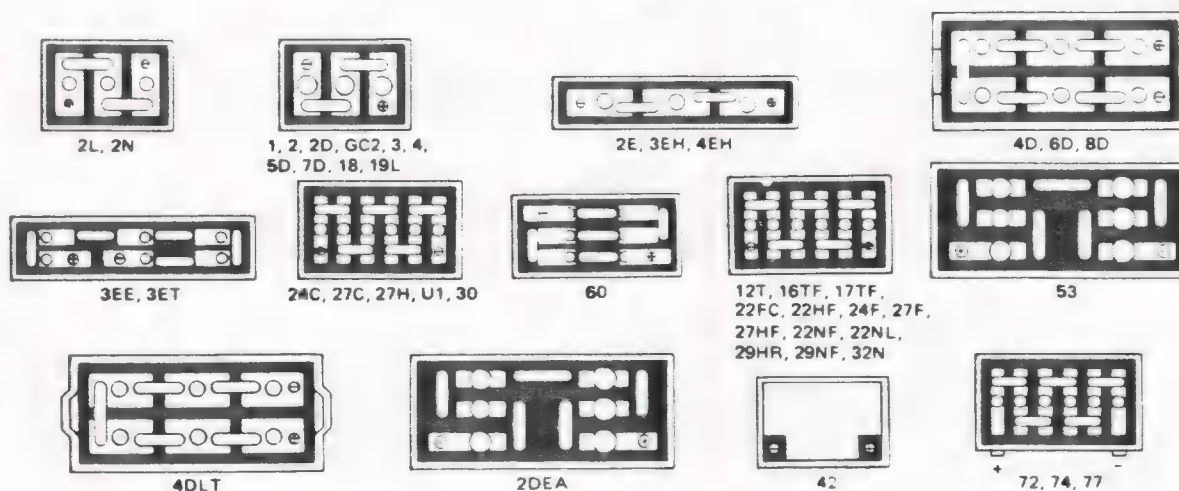
BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			WEIGHT (LBS.)
		LENGTH	WIDTH	HEIGHT	
MF-57	12	8	7-3/16	7	26.8
MF-58	12	9-7/16	7-13/16	7	32.7
MF-58A	12	9-7/16	7-3/16	7	34.1
MF-61	12	7-9/16	6-7/16	8-7/8	27.4
MF-62	12	8-15/16	6-7/16	8-7/8	33.4
MF-63	12	10-3/16	6-7/16	8-7/8	38.4
MF-64	12	11-9/16	6-5/16	8-7/8	43.2
MF-64A	12	11-9/16	6-5/16	8-7/8	43.3
MFR-71	12	8-5/32	7-5/32	8-1/8	29
MF-72	12	9-1/16	7-5/32	7-21/32	40.3
MFR-73	12	8-5/16	7-5/32	8-1/8	33
MF-74	12	10-9/32	7-5/32	8-9/32	46.8
MFR-74	12	10-9/32	7-5/32	8-9/32	35

DRY CHARGE BATTERY SPECIFICATION CHART

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			APPX. QTS. REQ'D.
		LENGTH	WIDTH	HEIGHT	
E42	12	9 13/16	6 7/8	6 29/32	3 1/4
E-42F	12	9 13/16	6 7/8	7 1/4	3 1/4
G-22FC	12	9 7/16	6 7/8	8 5/16	4
G-24C	12	10 9/32	6 27/32	8 15/16	5 1/2
G-24F	12	10 25/32	6 27/32	8 13/16	5 1/2
G-24M	12	10 9/32	6 13/16	9 7/8	4 1/2
G-27C	12	12 1/16	6 27/32	8 13/16	6 1/2
G-27F	12	12 17/32	6 27/32	8 13/16	6 1/2
G-72	12	9 7/16	7 9/32	8 1/4	4 1/2
G-74	12	10 9/32	7 9/32	8 3/4	5 1/2
GN-1	6	9 1/16	7 1/16	8 15/16	4 1/2
GN-2	6	10 5/16	7 1/16	8 15/16	5 1/4
GN-2E	6	19 1/4	8	9 1/32	5 1/2
GN-22FC	12	9 1/2	6 13/16	8 5/16	3 3/4
GN-24C	12	10 1/4	6 13/16	8 15/16	5 1/4
GN-24F	12	10 3/4	6 13/16	8 15/16	5
GN-24M	12	10 9/32	6 13/16	9 7/8	4 1/2
GN-29NF	12	13	5 1/2	9 5/32	4 3/4
GN-74	12	10 9/32	7 5/32	8 3/4	6 1/4
LU-7	12	7 3/4	5 5/32	7 9/32	2
LU-9	12	7 3/4	5 5/32	7 9/32	2
R-1	6	9 1/16	7 1/16	8 15/16	4 1/2
R-2	6	10 5/16	7 1/16	9 9/32	5 1/2
R-3	6	11 1/2	7 1/16	9 9/32	6 1/4
R-4	6	12 1/16	7 1/16	9 9/32	7
R-22FC	12	9 7/16	6 7/8	8 5/16	3 3/4
R-22FCA	12	9 7/16	6 7/8	8 5/16	4 1/2
R-22HF	12	9 7/16	6 7/8	8 13/16	4 1/4
R-23	12	10 3/4	6 7/8	8 7/16	4
R-24C	12	10 9/32	6 27/32	8 13/16	5
R-24CA	12	10 9/32	6 27/32	8 13/16	5
R-24CB	12	10 9/32	6 27/32	8 13/16	5 1/5
R-24F	12	10 25/32	6 27/32	8 13/16	5
R-24FA	12	10 25/32	6 27/32	8 13/16	5
R-24M	12	10 9/32	6 13/16	9 7/8	6 1/4
R-27C	12	12 1/16	6 27/32	8 13/16	5 3/4
R-27CA	12	12 1/16	6 27/32	8 13/16	5 3/5
R-27F	12	12 17/32	6 27/32	8 13/16	5 1/4

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			APPX. QTS. REQ'D.
		LENGTH	WIDTH	HEIGHT	
R-27FA	12	12 17/32	6 27/32	8 13/16	5
R-29HR	12	13 1/8	8 13/16	9 3/16	6 3/4
R-29NF	12	13	5 1/2	9 5/32	5
R-30H 95	12	13 17/32	6 17/32	9 9/32	6 1/2
R-32N	12	14 1/4	5 1/2	9 5/32	5 3/4
R-43	12	13 3/16	6 7/8	8 1/16	6
R-54	12	7 11/32	6 1/32	8 3/8	4
R-55	12	8 19/32	6 1/32	8 3/8	5
R-56	12	10 1/32	6 1/32	8 3/8	5
R-60	12	13 1/16	6 1/4	8 15/16	6
R-64	12	11 11/16	6 5/16	8 14/16	6
R-72	12	9 7/16	7 9/32	8 1/4	4 1/2
R-74	12	10 9/32	7 9/32	8 3/4	3 3/4
R-77	12	12 1/16	7 9/32	8 3/4	5
V-4	6	12 11/16	7 1/16	9 9/32	7
1HG	6	9 1/16	7 1/16	8 15/16	4 1/4
1LS	6	8 3/8	6 3/4	7 13/32	2 3/4
1LSH	6	7 13/16	6 29/32	8 19/32	3
1MS	6	9 1/16	7 1/16	8 15/16	4 1/4
1MST	6	9 1/16	7 1/16	8 15/16	4 1/2
2GC	6	10 3/8	7 1/8	11 19/32	6
2GCA	6	10 3/8	7 1/8	11 19/32	6
2HG	6	10 5/16	7 1/16	9 9/32	5 1/2
2HN	6	10	5 1/2	9 1/16	3 3/4
2LG	6	10 5/16	7 1/16	8 3/8	4 3/4
3EE	12	19 5/16	4 3/8	8 25/32	5 1/2
3EHA 172	6	19 5/16	4 11/32	9 25/32	6
3HE	12	19 5/16	4 3/8	9 23/32	6
4DA	12	20 3/4	8 3/4	9 13/16	11 1/2
4DLT	12	20	8 3/16	8 29/32	10
5DA	6	13 1/2	7 1/8	9 1/4	6
7DA	6	16 1/4	7 1/8	9 1/4	7 1/4
8DA	12	20 3/4	11 13/16	9 13/16	15 1/2
8DAT	12	22 1/4	11	9 13/16	15 1/2
8DB	12	20 3/4	11	9 23/32	15 1/2
10HN	12	9 7/16	5 1/2	9 61/64	3 1/4
16TF	12	16 17/32	7 1/8	11 5/32	10
17TF	12	17 1/16	6 7/8	8 29/32	7

BATTERY TERMINAL POSITION AND CELL LAYOUTS



MOTORCRAFT BATTERY LIMITED WARRANTY

FOR OTHER THAN "TESTED TOUGH" BATTERIES

The label shown below will be attached to Motorcraft batteries shipped after April 1, 1982. Batteries with this label are warranted by Ford Motor Company to the consumer. The terms and conditions of the warranty are shown on the label.

When a Motorcraft battery is purchased, it is important that the tear-off portion of the label is removed by the owner or installer. The owner's name, address and date of purchase are to be filled in and the card should be attached to the owner's proof-of-purchase invoice and placed in the vehicle glove compartment. Both items must be furnished in case of subsequent battery failure.

CLAIM HANDLING PROCEDURES FOR DEALERS, WHOLESALEERS AND FLEETS

Batteries presented for warranty must be properly tested and recharged if necessary to determine whether they are, in fact, serviceable. Batteries that are discharged-only or that have been stored without use or recharging for extended periods are not eligible for replacement under warranty.

When a battery is found to be not serviceable, the time in service is to be determined by examination of the owner's warranty card and proof-of-purchase invoice. Qualified Fleets are required to enter the date of installation. Purchase invoices are not required.

Depending on the time in service, the owner is to receive as a replacement an equivalent Motorcraft battery on a gratis (no cost) or pro rata basis as described on the label.

Dealers, Wholesaleers and Fleets are to submit supporting documents to Motorcraft Warehouse Distributors, National Accounts and Special Market Accounts to obtain warranty on Motorcraft batteries. These Motorcraft accounts will in turn submit claims to Ford Parts and Service Division for reimbursement. When transactions between different levels of distribution occur, internal invoices or memorandums should be prepared using information from the tear-off portion of the warranty label and proof-of-purchase invoice.

Motorcraft	PART NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">MFR-27F</div>	ADJ. PERIOD <div style="border: 1px solid black; padding: 2px; display: inline-block;">48</div>	BATTERY LIMITED WARRANTY
This Motorcraft battery is warranted by Ford Motor Co. to the original retail purchaser for the time shown above when it is used in a private passenger car or light truck. If the battery fails to hold a charge due to a defect in material or workmanship it should be returned to a Motorcraft retailer or wholesaler. THIS CARD AND YOUR DATED PURCHASE INVOICE ARE REQUIRED FOR WARRANTY REPLACEMENT.			
Name _____ Date Purchased _____ (Date Installed for Fleet Service)			
Address _____ City _____ State _____			
If failure occurs within the first 3 months from date of purchase, the battery will be replaced with an equivalent Motorcraft battery free of charge. After this period, the cost of replacement will be prorated on the basis of a monthly charge for the number of months after purchase. For privately owned cars and light trucks, the monthly cost is based on the current Motorcraft suggested list price at the time of adjustment. Fleet, Farm, Marine and other commercial users are covered by specific application and adjustment periods published in Motorcraft Fleet and consumer price lists.			
IMPORTANT: Further Warranty information is on the reverse side of this card. DETACH AND KEEP WITH YOUR PURCHASE INVOICE.			
			PLANT CODE RETAIL NUMBER <div style="border: 1px solid black; padding: 2px; display: inline-block;">NE 314134</div>

Motorcraft	PART NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">MFR-27F</div>
POISON/DANGER - CAUSES SEVERE BURNS Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL - Flush with water. INTERNAL - Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. Eyes: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.	COLD CRANKING AMPS <div style="border: 1px solid black; padding: 2px; display: inline-block;">485</div>
KEEP OUT OF REACH OF CHILDREN	RESERVE CAPACITY <div style="border: 1px solid black; padding: 2px; display: inline-block;">95</div>
	DIST. BY FORD MOTOR CO. DEARBORN, MICH. 48121 SERIAL NUMBER <div style="border: 1px solid black; padding: 2px; display: inline-block;">NE 314134</div>

The Motorcraft Limited Battery Warranty does not cover: 1. Failure as a result of use in applications other than those recommended in Motorcraft catalogs. 2. Damage to case, cover or terminals caused by abuse, negligence, freezing or improper installation. 3. Cost of recharging or use of a rental battery. 4. Labor to remove and replace battery in the vehicle. 5. To the extent allowed by law, loss of time, inconvenience, loss of use of the vehicle or other consequential damages.
THERE IS NO OTHER EXPRESS WARRANTY ON MOTORCRAFT BATTERIES. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THE WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS. SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. Inquiries concerning this warranty should be directed to:
Warranty Administration, Ford Parts and Service Division 3000 Schaefer Road Dearborn, Michigan 48126

(Reverse Side of Warranty Card)

MOTORCRAFT INTERCHANGE

Tested Tough Line to Previous Line

TESTED TOUGH BATTERY NO.	REPLACES
BA-24	R-24C, GN-24C
BA-24F	GN-24F
BA-74	GN-74
BH-1	R-1, 1MS, 1HG, GN-1
BH-2	R-2, 2HG, GN-2
BH-3EE	3EE
BH-3EH	3EHA-172
BH-3ET	3HE
BH-4	R-4, V-4
BH-4D	4DA
BH-4DLT	4DLT
BH-7D	7DA
BH-8D	8DA, 8DB
BH-22NF	10HN
BH-24M*	G-24M, R-24CB
BH-27A	MF-27CA
BH-29H	R30H-95, MF-31, MF-31A
BH-29NF	R-29NF
BH-31	MF-31S, MF-31AS
BH-GC2	2GC, 2GCA
BH-U1	LU-7, LU-9
BR-21	MFR-21
BR-22F	MFR-22FC, GN-22FC, R-22FC
BR-24	MFR-24C, R-24CA
BR-24F	MFR-24F, R-24F, R-23
BR-42	E-42
BR-42F	E-42F
BR-45	NONE-NEW
BR-56	R-54, R-55, R-56
BR-61	MF-61
BR-62	MF-62
BR-71	MF-71, MFR-71, R-72
BR-74	R-74, MFR-74
BX-22F	MF-22FC, G-22FC, R-22FCA
BX-24	MF-24C, G-24C
BX-24F	MF-24F, G-24F, R-24FA
BX-24FA	MF-24F
BX-27	R-27C, MF-27C, MFR-27C, G-27C
BX-27F	G-27F, MF-27F, MFR-27F, R-27F, R-27FA, R-29HR
BX-33	NONE-NEW
BX-41	NONE-NEW
BX-58	MF-57, MF-58
BX-58A	MF-58A
BX-63	MF-63
BX-64	MF-64, R-64
BX-64A	MF-64A
BX-65	NONE-NEW
BX-71	MFR-73, G-72
BX-72	NONE-NEW
BX-74	MF-74, G-74, R-77

*Check terminal height to hood clearance.

DEPARTMENT OF PURCHASES
 Number One Main St., Ft. Wayne, Ind. 46802
INVITATION

Page 1 of 18

Ref. No. 732

Date 2/1/85

Date wanted 2/26/85

Fund
 Appropriation No. _____

Conditions subject to the conditions on the reverse hereof, are extended on the following list of materials, supplies, equipment or services for the Department as mentioned with delivery to destination as shown below. Conditions shall include all charges for delivery, packing, etc. Answer your reply as indicated below.

*Mail all replies and correspondence, etc. to Attn of Carol Offerle: 427-1101 DEPARTMENT OF PURCHASES

Room 940, Number One Main St., Ft. Wayne, Ind. 46802

REQUIRED FOR DELIVERY TO:

Department
 or Division City Utilities Garage
1705 South Lafayette

Address Fort Wayne, Indiana 46803

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing
 Time of Bid: February 26, 1985 at 10:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL LICENSE AND INDIANA STATE SALES TAX THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 4444. PRICES SHOULD NOT INCLUDE THESE TAXES. See Instructions to Bidders No. 13 on reverse hereof for details.
TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total Amount
		Automotive Battery Requirements for the City of Fort Wayne through the end of February, 1986 (per the attached specifications: see page 11 of 18).		
AFFIRMATIVE ACTION: ON FILE <input checked="" type="checkbox"/> ATTACHED <input type="checkbox"/>				

Bid Bond required ☐ NO ☒ YES \$500.00 Performance Bond ☒ YES ☐ NO
See Instruction Item No. 13 on reverse side hereof.
 Terms 1 % cash discount if paid within 10 days from delivery and acceptance of goods or completion of services.

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applicable and at the place and opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within 1 days from receipt of order.

IMPORTANT ☒

As delivery may be a deciding factor in the award of an order, it is requested that bidders furnish the information requested above.

Bids Due:

TAYLOR, BLACKBURN, JOY BATTERY COSE
 Name of Company

By Norman J. Joy Title PRES.

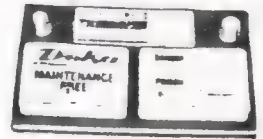
Address 1900 MAURICE AVE

City FORT WAYNE State IND.

1802 Maumee Avenue
Fort Wayne, Indiana
Phone 423-3513

200 South Olive Street
South Bend, Indiana
Phone 232-3581

Taylor Blackburn & Joy BATTERIES



City Kid

EFFECTIVE:: 3/1/85

GROUP SIZE	TYPE NO#	WARR. UNITS	COLD CRANK	UNIT PRICE
12 VOLT HI-TECH LINE				
21	721MF	60	700	\$ 35.70
22F	722FNF	60	700	35.70
71	771MF	60	700	35.70
12 VOLT PASSENGER CAR				
24	724MF	60	815	\$ 40.70
	624MF	60	530	33.74
	424MF	48	440	27.53
	324MF	36	370	24.61
	524	60	475	33.74
	424	48	395	27.53
	324	36	335	24.61
	224	24	235	21.22
74	774MF	60	815	\$ 42.07
	674MF	60	530	35.24
	474MF	48	440	29.04
	374MF	36	370	26.08
	574	60	475	35.24
	474	48	395	26.24
	374	36	335	26.00
24F	624FNF	60	530	\$ 33.74
	424FNF	48	440	27.53
	324FNF	36	370	24.61
	524F	60	475	33.74
	424F	48	395	27.53
	324F	36	335	24.61
21	421MF	48	345	\$ 26.31
22F	622FNF	60	450	\$ 28.44
	422FNF	48	380	25.40
	322FNF	36	295	23.73
	522F	60	395	26.44
	422F	48	335	25.40
	322F	36	305	23.73
	222F	24	235	20.21
70	670MF	60	420	\$ 29.25
71	671MF	60	420	\$ 29.25
	471MF	48	345	25.09
	471	48	305	25.09
72	672MF	60	450	\$ 29.51
	472MF	48	375	25.97
	472	48	335	25.97
	372	36	305	24.52
73	673MF	60	490	\$ 32.16
	473MF	48	420	29.00
26	426MF	48	420	\$ 26.50

GROUP SIZE	TYPE NO#	WARR. UNITS	COLD CRANK	UNIT PRICE
27	627MF	60	670	30.00
	427MF	48	480	34.20
	527	60	535	30.00
	427	48	445	34.20
	327	36	290	20.14
27F	627FNF	60	670	30.00
	427FNF	48	480	34.20
	527F	60	535	30.00
	427F	48	445	34.20
41	641MF	60	640	\$ 41.41
42	642MF	60	430	\$ 31.22
	342	36	280	20.35
43	443	48	440	27.23
44	444	48	570	44.11
49	449	48	320	24.44
45	645MF	60	410	34.50
	445	48	375	27.22
22NF	322NF	36	245	24.50
46	446	48	395	26.15
60	460	48	430	\$ 33.46
3E	403E	48	320	\$ 35.97
29NF	429NF	48	340	21.77
	329NF	36	290	20.30
55	655MF	60	440	32.71
	455	48	370	27.53
58	458MF	48	430	30.40
62	662MF	60	480	33.50
53	353	36	255	\$ 20.34
20H	220H	24	230	\$ 20.42
22HL	222HL	24	190	20.25
39	239	24	200	\$ 20.74
6 VOLT PASSENGER CAR				
1	301	36	450	\$ 22.00
2L	302L	36	430	\$ 23.40
2	302	36	460	\$ 24.60
2E	402E	48	500	\$ 30.21
2H	302H	36	395	\$ 26.70
19L	319L	36	400	\$ 23.20
17HF	217HF	24	340	\$ 21.68
3 VOLT AND AUTOMATIC				
1	301	24	360	\$ 20.34
2	302	24	410	\$ 31.43
24	624A	12	---	\$ 54.10

GROUP SIZE	TYPE NO.	WARR. UNITS	COLD CRANK	UNIT PRICE
12 VOLT MARINE OUTBOARD MOTOR				
24	8800LF	12	815	\$ 43.62
	8520LF	12	530	36.71
	8085	12	475	34.11
	8070	12	395	27.10
(MIN. @ 23 AMP DRAW DEEP CYCLE)				
24	8T24	12	125MIN.	\$ 33.06
27	8T27	12	175MIN.	40.00
LAWN MOWER-GARDEN TRACTOR-SMALL ENGINE				
U2	6AL	12	150	\$ 10.50
U1	7AL	12	160	10.57
U1R	9AR	12	215	19.16
U1	9AL	12	215	19.16
U1M	9ALM	12	215	21.81
U1	10ALMF	12	260	19.97
	11AR	12	235	22.50
HEAVY COMMERCIAL				
1	901LF	60	540	\$ 26.96
	901	48	520	26.06
2	902	48	610	22.69
3	903	30	600	34.62
4	904LMF	30	950	37.87
	704	24	600	34.04
	904M	30	720	34.40
5D	905D	30	825	42.00
31	931MF	30	550	43.64
	931PMF	30	550	43.64
	1031MF	30	630	46.16
	1031PMF	30	630	46.16
32N	932N	48	315	40.27
29HR	929HR	48	480	44.30
30H	930H	48	550	39.41
16TF	9135	48	530	67.46
40LT	9125	48	750	64.14
12T	9095	48	460	59.13
17TF	9080	48	515	40.71
3ET	93ET	48	475	39.84
3EH	93EH	48	850	37.20
4EH	94EH	48	900	47.14
HEAVY DUTY DIESEL STARTING				
7D	907D	30	810	\$ 40.23
3D	903D	30	1180	82.66
9D	909D	30	1130	102.50
4D	904D	30	950	76.76
6D	906D	30	770	97.06
8D	708D	30	850	90.13
	908D	30	1000	96.43
	908DMF	30	1300	112.41
ORDNANCE				
1	601	48	480	\$ 25.05
6TN	6TN	24	530	67.68
2HN	6HN	24	210	38.55

GROUP SIZE	TYPE NO.	WARR. UNITS	COLD CRANK	UNIT PRICE
GOLF CAR AND MOTIVE POWER				
MIN. OF DISCH. @ 75 AMPS				
GC-2	7G, 7GCA,			
	7GC	10	92	\$ 39.63
GC-2H	8G, 8GCA,			
	8GC	12	100	41.85
GC-2H	9G, 9GCA,			
	9GC	12	110	43.46
MINE TRACTOR AND DIESEL LOCOMOTIVE				
	M500	15	N/A	
	M400	15	N/A	
	M300	12	N/A	
	DL7000	60	N/A	PRICES
	DL6000	60	N/A	
	DL5000	60	N/A	AVAILABLE
	DL4500	60	N/A	
	DL4000	60	N/A	UPON
	DL3000	60	N/A	
	DL3000S	60	N/A	REQUEST
	DL-U450	60	N/A	
	DL-U420	60	N/A	
8 VOLT MARINE AND INDUSTRIAL				
	813	24	N/A	PRICES
	815	24	N/A	
	817	24	N/A	AVAILABLE
	819	24	N/A	
	821	24	N/A	UPON
	823	24	N/A	
	825	24	N/A	REQUEST
FLOOR SCRUBBER AND SWEEPER				
	8C11	12	N/A	\$ 55.11
	8C6V	12	N/A	70.01
	8C12	12	N/A	83.42
	8L16	12	N/A	78.79
	90SS	12	N/A	60.41
12 VOLT AIRCRAFT				
	12-24	12	N/A	\$ 24.97
	12-35	12	N/A	29.85
6 VOLT EMERGENCY LIGHTING				
1	EL-11-1	12	N/A	\$ 48.66
2N	EL-9-2N	12	N/A	43.79

ALL BATTERIES HAVE TAPERED TERMINAL POSTS AND STANDARD TERMINAL ARRANGEMENTS UNLESS OTHERWISE SPECIFIED. ALL PRICES FOR HEAVY DUTY MOTOR COACH, BUS AND DIESEL STARTING, EXCEPT 7D, INCLUDE HANDLES AND SPECIAL TERMINALS WHEN SPECIFIED.

BATTERIES

EAST PENN manufacturing co., inc.

LYON STATION, PA. 19536

EFFECTIVE DATE

MAY 15, 1984

Supersedes all previous list prices
Subject to change without notice



GROUP NO.	TYPE NO.	FOOT NOTES	SUGG. LIST PRICE	SUGG. WARRANTY	PLATES PER BATTERY	PERFORMANCE LEVEL		OTS. OF ACID	APPROX. WGT.		MAX. OVERALL DIMENSIONS (in inches and mm)					
						CRANKING PERFORMANCE	RESERVE CAPACITY		WET	DRY	L	W	H			
12 VOLT PASSENGER CAR																
24	+ 724MF		120.95	60	114	815	120	—	49	—						
	+ 624MF		96.95	60	78	530	100	—	43	—						
	+ 424MF		80.95	48	60	440	70	—	39	—						
	+ 324MF		71.95	36	48	370	60	—	35	—	10 1/4	260	6 3/4	175	9	229
	• 524		98.95	60	78	475	130	5	45	32						
	• 424		80.95	48	55	395	90	5	42	28						
	• 324		71.95	36	54	335	75	6	37	23						
	• 224		59.95	24	42	235	55	6	32	18						
74	+ 774MF		120.95	60	114	815	120	—	49	—						
	+ 674MF		102.95	60	78	530	100	—	43	—						
	+ 474MF		85.95	48	60	440	70	—	39	—						
	+ 374MF		76.95	36	48	370	60	—	35	—	10 1/4	260	6 3/4	175	8 1/2	216
	• 574		100.95	60	78	475	130	5	45	32						
	• 474		85.95	48	66	395	90	6	42	28						
	• 374		76.95	36	54	335	75	6	37	23						
24F	+ 624FMF		96.95	60	78	530	100	—	43	—						
	+ 424FMF		80.95	48	60	440	70	—	39	—						
	+ 324FMF		71.95	36	48	370	60	—	35	—	10 1/4	270	6 3/4	175	9	229
	• 524F		97.95	60	78	475	130	5	45	32						
	• 424F		80.95	48	55	395	90	6	42	28						
	• 324F		71.95	36	54	335	75	6	37	23						
21	+ 421MF		75.95	48	48	345	60	—	32	—	8 1/4	206	6 3/4	171	8 3/4	222
22F	+ 622FMF		83.95	60	66	450	90	—	39	—						
	+ 422FMF		69.95	48	54	380	65	—	32	—						
	+ 322FMF		64.95	36	42	295	45	—	30	—						
	• 522F		79.95	60	55	395	90	4	35	24	9 3/4	238	6 3/4	171	8 1/4	206
	• 422F		69.95	48	54	335	70	4	34	23						
	• 322F		64.95	36	54	305	60	4 1/2	32	21						
	• 222F		57.95	24	42	235	42	4	28	17						
70	+ 670MF		83.95	60	60	420	80	—	30	—	8 1/4	206	6 3/4	171	7 3/4	197
71	+ 671MF		83.95	60	60	420	80	—	37	—						
	+ 471MF		72.95	48	48	345	60	—	34	—	8 1/4	206	6 3/4	175	8 3/4	213
	• 471		72.95	48	54	305	60	4 1/2	31	23						
72	+ 672MF		84.95	60	66	450	90	—	40	—						
	+ 472MF		72.95	48	54	375	65	—	35	—	9 3/4	238	6 3/4	171	8	203
	• 472		72.95	48	54	335	70	4	34	24						
	• 372		67.95	36	54	305	60	4 1/2	32	21						
73	+ 673MF		90.95	60	72	490	90	—	38	—	9	229	6 3/4	171	8 3/4	213
	+ 473MF		82.95	48	60	420	80	—	36	—						
26	+ 426MF		76.95	48	60	420	80	—	36	—	8 1/4	206	6 3/4	171	8	203
27	+ 627MF		111.95	60	102	670	135	—	50	—						
	+ 427MF		98.95	48	72	490	90	—	47	—						
	• 527		104.95	60	90	535	145	6 1/2	51	33	12	305	6 3/4	168	9	229
	• 427		92.95	48	78	445	120	6 1/2	46	28						
	• 327		75.95	36	54	290	75	6	42	28						
27F	+ 627FMF		111.95	60	102	670	135	—	50	—						
	+ 427FMF		98.95	48	72	490	90	—	47	—	12 3/4	314	6 3/4	171	9 1/4	232
	• 527F		104.95	60	90	535	145	6 1/2	51	33						
	• 427F		92.95	48	78	445	120	6 1/2	46	28						
41	+ 641MF		118.95	60	120	640	90	—	40	—	11 1/2	292	6 3/4	175	6 3/4	175
42	+ 642MF		87.95	60	78	430	75	—	34	—	9 1/2	241	6 3/4	175	6 3/4	175
	• 342		74.95	36	66	280	59	4	33	24						
43	• 443	AC	106.95	48	90	440	100	6	49	38	13	330	6 3/4	175	8	203
44	• 444	AC	124.95	48	114	570	150	6 1/2	60	44	16 3/4	416	6 3/4	175	8	203
49	• 449	A	156.95	48	126	620	155	6	55	41	14 1/4	378	6 3/4	171	7 3/4	194
45	+ 645MF		98.95	60	78	410	80	—	34	—	9 3/4	238	5 1/4	133	8 3/4	225
	• 445	A	81.95	48	78	375	70	4	35	27						
22NF(45)	• 322NF		67.95	36	54	245	52	3 1/2	30	22	9 3/4	238	5 1/4	133	8 3/4	225
	• 44E	A	82.95	48	66	395	90	6	42	28	10 1/4	270	6 3/4	175	9	229
60	• 460	A	98.95	48	78	430	105	6	44	27	12 3/4	324	6 3/4	156	8 3/4	222
3E	• 403E	A	104.95	48	66	320	105	5	50	35	19 1/4	486	4 1/4	108	8 1/2	216
29NF	• 429NF		90.95	48	78	340	95	5	44	32	12 1/4	311	5 1/2	140	8 3/4	225
	• 329NF		78.95	36	66	290	80	5	41	29						
55	+ 655MF		94.95	60	66	440	80	—	33	—	8 1/2	216	6	152	8 1/2	216
	• 455		79.95	48	66	370	75	3 1/2	33	25						
58	+ 458MF		92.95	48	78	430	70	—	35	—	9 1/4	235	7 1/4	181	7	178
62	+ 662MF		96.95	60	78	480	90	—	35	—	8 3/4	219	6 1/4	159	8 3/4	222

GROUP NO.	TYPE NO.	FOOT NOTES	SUGG. LIST PRICE	SUGG. WARRANTY	PLATES PER BATTERY	PERFORMANCE LEVEL			APPROX. WGT.		MAX. OVERALL DIMENSIONS (in inches and mm)						
						CRANKING PERFORMANCE	RESERVE CAPACITY	QTS. OF ACID	WET	DRY	L	W	H				
12 VOLT HI-TECH LINE																	
21/24	+ 721/24MF		102.95	60	96	700	90	—	37	—	8 1/8	206	6 3/4	171	8 3/4	222	
22F/24F	+ 722F/24FMF		102.95	60	96	700	90	—	37	—	8 1/8	206	6 3/4	171	8 3/4	222	
71/72/73/74	+ 771/73/74MF		102.95	60	96	700	90	—	37	—	8 1/8	206	6 3/4	171	8 3/4	213	
12 VOLT PASSENGER CAR MISCELLANEOUS																	
53	353	A	77.95	36	54	255	55	3	34	25	12 3/4	324	4 1/2	117	8 1/2	206	
20H	• 220H	A	73.95	24	42	230	42	3 1/2	32	22	7 1/2	194	6 1/2	168	9 1/4	235	
22NL	222NL	AY	73.95	24	54	180	30	3	31	23	9	229	5 1/2	130	7 1/2	200	
39	• 239	A	72.95	24	54	200	40	3	32	19	8	203	6 1/2	175	6 1/2	175	
6 VOLT PASSENGER CAR																	
1	• 301		64.95	36	39	450	140	5	32	20	8 1/8	225	6 3/4	171	8 1/2	225	
2L	• 302L	A	69.95	36	51	430	140	5	32	20	10	254	6 1/2	165	7 1/2	200	
2	• 302	A	69.95	36	39	460	125	5	32	20	10 1/2	264	7	178	9	229	
2E	• 402E	A	84.95	48	51	500	180	5 1/2	43	30	18 1/8	479	3 1/2	98	8 1/2	219	
2N	302N	A	70.95	36	51	395	120	4	34	21	10	254	5 1/2	140	8 1/2	225	
19L	• 319L	A	62.95	36	45	400	115	3	34	20	8 1/8	206	6 1/2	168	7 1/2	191	
17HF	• 217HF	AB	61.95	24	27	340	90	3	24	15	7 1/4	184	6 3/4	171	9 1/4	235	
12 VOLT AND AUTOMATIC																	
1	801	A	82.95	24	44	360	110	5	36	22	8 1/8	225	6 3/4	171	8 1/2	219	
2	802	A	90.95	24	52	410	140	6	40	25	10 3/8	264	7	178	9	229	
24	• 824A	A	147.95	12	36	—	—	5	43	28	10 1/4	260	6 3/4	171	9	229	
12 VOLT MARINE OUTBOARD MOTOR																	
24	+ 8800MF	D	125.95	12	114	815	120	—	49	—	10 1/4	260	6 3/4	171	9 1/2	251	
	+ 8520MF	D	113.95	12	78	530	100	—	43	—							
	• 8085	D	104.95	12	78	475	130	5	45	32							
	• 8070	D	86.95	12	56	395	90	6	42	28							
MINS. @ 23 AMP DRAW																	
	8T24	D	109.95	12	66	125	5	42	27 1/2								
27	8T27	D	132.95	12	90	175	6 1/2	52	37 1/2	11 3/4	298	6 3/4	171	9 1/2	251		
LAWN MOWER—GARDEN TRACTOR—SMALL ENGINE																	
U2	P.L.T. • 6AL	A	52.95	12	42	150	20	12	1 1/2	16	13	6 3/4	162	5 1/2	130	7 1/4	184
U1	P.L.T. • 7AL	A	51.95	12	42	160	23	12	2	19	14	7 1/8	194	5 1/2	130	7 1/2	181
U1R	P.R.T. • 9AR	H	55.95	12	54	215	32	12	2	18	14	7 1/8	194	5 1/2	130	7 1/2	181
U1	P.L.T. • 9AL	H	55.95	12	54	215	32	12	2	18	14	7 1/8	194	5 1/2	130	7 1/2	181
U1R	P.R.T. • 9ARFP	AH	60.95	12	54	215	32	12	2	—	18 1/2	7 1/8	194	5 1/2	130	7 1/2	181
U1	P.L.T. • 9ALFP	AH	60.95	12	54	215	32	12	2	—	18 1/2	7 1/8	194	5 1/2	130	7 1/2	181
U1M	P.L.T. • 9ALM	A	62.95	12	54	215	32	12	2	21	17	8 1/4	210	5 1/2	130	7 1/2	181
U1	P.L.T. • 10ALMF		58.95	12	54	260	30	12	—	20	—	7 1/8	194	5 1/2	130	7 1/2	181
	P.R.T. • 11AR	A	62.95	12	66	235	43	12	2 1/2	27	19	9 3/4	248	5 1/2	130	7 1/4	184
MOTORCYCLE																	
	• H12		63.95	—	54	210	32	12	2	19	16	9 1/2	244	5 1/2	130	6 1/2	165
HEAVY COMMERCIAL SERVICE																	
1	▲ 901MF		74.95	60	45	540	135	6	—	32	—	9	229	7	178	8 1/2	225
	901		76.95	48	51	520	175	6	4	39	28	—	—	—	—	—	—
2	902		83.95	48	57	610	200	6	5	44	33	10 3/8	264	7	178	9	229
3	903		103.95	30	57	600	250	6	5 1/2	54	38	11 1/4	298	7	178	8 3/4	222
4	▲ 904MF		117.95	30	87	950	280	6	—	56	—	13	330	7	178	9 1/4	235
	▲ 904WMF		117.95	30	87	950	280	6	—	56	—	12 1/2	318	7	178	9 1/4	235
	704		101.95	24	57	600	250	6	6	51	32	13	330	7	178	9 1/4	235
	904		103.95	30	63	720	285	6	6	55	36 1/2	13	330	7	178	9 1/4	235
	904W		103.95	30	63	720	285	6	6	54	35 1/2	12 1/2	318	7	178	9 1/4	235
	1004		112.95	48	69	800	310	6	6	59	42	13	330	7	178	9 1/4	235
5D	905D		127.95	30	69	825	300	6	7	58	44	13 1/2	343	7	178	9 1/4	235
24	• 924		87.95	48	54	370	93	12	5	45	31	10 1/4	260	6 1/2	175	—	229
24T	924T	A	100.95	48	54	285	90	12	5 1/2	49	35	10 1/4	257	6 3/4	171	9 3/4	248
27	• 927		102.95	48	78	440	102	12	5 1/2	47	28	12	306	6 1/2	168	9	229
31	+ 931MF		140.95	30	102	550	140	12	—	59	—	12 3/4	324	6 3/4	171	9 1/2	241
	+ 931PMF		140.95	30	102	550	140	12	—	59	—						
	+ 1031MF		153.95	30	114	630	160	12	—	61	—						
	+ 1031PMF		153.95	30	114	630	160	12	—	61	—						
32N	• 932N	A	112.95	48	78	315	95	12	5 1/2	47	33	14 1/4	362	5 1/2	140	9	229
29HR	929HR	A	120.95	48	78	480	140	12	7	60	43	12 3/4	324	6 1/2	168	8 1/2	225
30H	930H		112.95	48	78	550	165	12	6	60	43	13 1/2	343	6 1/2	171	9 1/4	235
16TF	9135	A	176.95	48	78	530	210	12	10	93 1/4	67	16 1/2	418	6 1/2	175	10 1/2	276
4DLT	9125	A	189.95	48	138	750	205	12	9	86	62	20	508	8 1/2	206	8 1/2	216
12T	9095	A	166.95	48	66	460	150	12	6 1/2	80	59	11 1/2	302	6 1/2	175	11 1/2	283
17TF	9080	A	144.95	48	102	515	120	12	6	58	43	17	432	6 1/2	175	7 1/2	200
3ET	93ET	A	108.95	48	78	475	115	12	6	57	40	18 1/8	480	4 1/4	108	9 3/4	248
3EH	93EH	A	103.95	48	69	850	340	6	6	57	40	19	483	4 1/4	108	9 3/4	244
4EH	94EH	A	131.95	48	75	900	350	6	7	67	43	19 1/2	492	5	127	9 1/2	251

GROUP NO.	TYPE NO.	FOOT NOTES	SUGG LIST PRICE	SUGG WARRANTY	PLATES PER BATTERY	PERFORMANCE LEVEL			QTS OF ACID	APPROX WGT		MAX OVERALL DIMENSIONS (in inches and mm)					
						CRANKING PERFORMANCE	RESERVE CAPACITY	VOLTS		WET	DRY	L	W	H			
HEAVY DUTY DIESEL STARTING																	
7D(7DS)	907D		143.95	30	75	810	340	6	7	67	54	15 3/4	400	6 7/8	175	9 1/2	232
3D	903D	AC	237.95	30	114	1180	580	6	11	131	101	20 3/4	518	8 3/4	222	9 3/4	244
9D	909D	AC	282.95	30	129	1130	600	6	14	135	103	25 1/2	648	7 1/2	191	10 1/2	267
4D	904D	C	223.95	30	138	850	250	12	11	120	90	20 1/2	524	8 3/4	219	9 3/4	244
6D	906D	AC	282.95	30	138	770	260	12	13	139	106	20 3/4	514	9 3/4	247	9 3/4	244
8D	708D	C	260.95	30	150	850	370	12	15 1/2	154	113						
	908D	C	277.95	30	174	1000	425	12	15	157	120	20 3/4	518	10 3/4	266	9 1/2	241
	908DMF	C	325.95	30	174	1300	410	12	—	158	—						

ORDNANCE																
1	601		74.95	48	51	480	165	6	4	38	26	9	229	7	178	8 7/8
6TN	6TN	AC	192.95	24	126	530	175	12	9	71	55	11	279	10 3/4	264	9
2HN	6HN	A	108.95	24	54	210	55	12	11	37	27	10 1/4	260	5 1/2	137	9

GROUP NO.	TYPE NO.	FOOT NOTES	SUGG LIST PRICE	SUGG WARRANTY	PLATES PER BATTERY	MINS OF DISCH. @ 75 AMPS	VOLTS	QTS OF ACID	SEP.	APPROX. WGT.		MAX. OVERALL DIMENSIONS (in inches and mm)					
										WET	DRY	L	W	H			
GOLF CAR AND MOTIVE POWER																	
GC-2	7G	F	111.95	10	57	92	6	6 1/2	PG	62	46	10 1/4	260	7 1/4	181	11 1/4	286
	7GCA		111.95	10	57	92	6	6 1/2	PG	62	46	10 1/4	260	7 1/4	181	10 3/4	264
	7GC	G	111.95	10	57	92	6	6 1/2	PG	62	46	10 1/4	260	7 1/4	181	10 3/4	270
GC-2H	8G	F	114.95	12	57	100	6	6 1/2	PG	64	47	10 1/4	260	7 1/4	181	11 1/4	298
	8GCA		114.95	12	57	100	6	6 1/2	PG	64	47	10 1/4	260	7 1/4	181	10 3/4	276
	8GC	G	114.95	12	57	100	6	6 1/2	PG	64	47	10 1/4	260	7 1/4	181	11 1/4	283
GC-2H	9G	F	131.95	12	63	110	6	7	PG	64	47	10 1/4	260	7 1/4	181	11 3/4	298
	9GCA		131.95	12	63	110	6	7	PG	64	47	10 1/4	260	7 1/4	181	10 3/4	276
	9GC	G	131.95	12	63	110	6	7	PG	64	47	10 1/4	260	7 1/4	181	11 1/4	283

GROUP NO.	TYPE NO.	FOOT NOTES	SUGG. LIST PRICE	SUGG. WARRANTY	PLATES PER BATTERY	A.H. 8 HR. RATE	A.H. 6 HR. RATE	VOLTS	QTS OF ACID	APPROX. WGT.		MAX. OVERALL DIMENSIONS (in inches and mm)					
										WET	DRY	L	W	H			
8 VOLT MARINE AND INDUSTRIAL																	
	813	C	190.95	24	52	111	105	8	11	93	66	18½	470	7½	191	9¾	244
	815	C	193.95	24	60	130	123	8	12	103	72	21½	546	7½	191	9¾	244
	817	C	217.95	24	68	150	142	8	12	107	76	21½	546	7½	191	9¾	244
	819	C	251.95	24	76	167	158	8	14	117	82	24½	622	7½	191	9¾	244
	821	C	284.95	24	84	187	177	8	15	141	102	27½	699	7½	191	9¾	244
	823	C	310.95	24	92	205	194	8	15	145	106	27½	699	7½	191	9¾	244
	825	C	333.95	24	100	224	212	8	17	162	119	26¾	683	8½	216	9¾	244

MINE TRACTOR AND DIESEL LOCOMOTIVE																
	M500		548.95	15	114	390	370	12	—	320	—	20 3/4	518	10 3/4	276	17 1/2
	M400		451.95	15	138	310	290	12	—	265	—	20 3/4	518	10 3/4	276	14
	M300		363.95	12	162	235	220	12	—	195	—	20 3/4	518	10 3/4	276	11
	DL7000		1210.95	60	—	620	1490	8	—	415	—	28 1/2	724	11 1/8	283	17 3/4
	DL6000		1119.95	60	—	575	1460	8	—	400	—	28 1/2	724	11 1/8	283	17 3/4
	DL5000		1045.95	60	—	475	1380	8	—	330	—	28 1/2	724	11 1/8	283	17 3/4
	DL4500		907.95	60	—	420	1330	8	—	301	—	27 3/4	708	8 3/4	206	17 3/4
	DL4000		814.95	60	—	375	1300	8	—	287	—	27 3/4	708	8 3/4	206	17 3/4
	DL3000		637.95	60	—	285	1230	8	—	224	—	28 1/2	714	6 5/8	168	17 3/4
	DL3000S		658.95	60	—	285	1230	8	—	224	—	23 1/2	597	7 3/4	197	17 3/4
	DL-U450		8164.95	60	—	450	1360	32	—	1275	—	33 3/4	854	26 3/4	683	20 1/4
	DL-U420		7749.95	60	—	420	1330	32	—	1195	—	33 3/4	854	27 3/4	708	20 1/4

FLOOR SCRUBBER AND SWEEPER																
	8C11		156.95	12	63	—	180	6	7 1/2	76	56	11 3/4	295	7	178	10 3/4
	8C6V		212.95	12	57	—	245	6	11	96	72	12 1/4	311	7	178	14 3/4
	8C12	C	253.95	12	66	—	135	12	12	117	88	15 1/2	394	7	178	14 3/4
	8L16		237.95	12	45	—	295	6	12	112	84	11 3/4	298	7	178	16
	90SS	C	173.95	12	78	80	75	12	9	76 1/4	55	18	457	7 1/2	191	9 1/2

GROUP NO.	TYPE NO.	FOOT NOTES	SUGG. LIST PRICE	SUGG. WARRANTY	PLATES PER BATTERY	A.H. 5 HR. RATE	A.H. 3 HR. RATE	A.H. 1½ HR. RATE	A.H. 1 HR. RATE	QTS. OF ACID	APPROX. WGT.		MAX. OVERALL DIMENSIONS (in inches and mm)					
											WET	DRY	L	W	H			
12 VOLT AIRCRAFT																		
	• 12-24	AC	67.95	12	54	27	—	—	—	2½	21	16	7¾	197	5½	130	7¾	187
	▪ 12-35	AC	81.95	12	66	34	—	—	—	2½	27	19	9¾	248	5½	130	7¾	187
	▪ 12-24FP	AC	72.95	12	54	27	—	—	—	—	—	21½	7¾	197	5½	130	7¾	187
	• 12-35FP	AC	87.95	12	66	34	—	—	—	—	—	24½	9¾	248	5½	130	7¾	187

6 VOLT EMERGENCY LIGHTING																
1	EL-11-1MF		131.95	12	33	—	60	50	45	5	40	—	8 7/8	225	6 1/2	165
2N	EL-9-2N		119.95	12	27	—	48	52	47	5	26	21	9 1/4	235	5 3/8	137

■ ONE PIECE RATINGS
 + MAINTENANCE FREE CALCIUM GRIDS
 • LOW MAINTENANCE—LOW ANTIMONY GRIDS
 ■ MAINTENANCE FREE WITH VENT CAPS. CALCIUM GRIDS
 ■ 3 HOUR RATINGS
 All batteries manufactured in hard rubber or Polypropylene cases
 Separators Maintenance Free-Daracim Commercial—Plastic

Dry charged batteries subject to plastic separators
 Maintenance free type batteries not available dry charged
 FP—Battery with acid pack
 All ratings conform to B.C.I. specifications

(C) INCLUDES ROPE HANDLES
 (D) EXTENDED TOP FLANGES FOR ROPE HANDLES
 ADD 1" TO OVERALL LENGTH
 (F) COMBINATION TERMINALS
 (G) SPECIAL TERMINALS
 (H) POLYPROPYLENE CONTAINER ■ COVER
 (Y) SMALL DIAMETER TERMINALS

(A) AVAILABLE DRY CHARGED ONLY
 (B) EXTENDED TOP LEDGE WITH HOLES FOR HOLD-DOWN

Battery Warranty

LIMITED WARRANTY

A Free Adjustment Period

Any battery which becomes unserviceable (not merely discharged) due to defects in material or workmanship within 90 days of installation will be repaired or replaced to the original user at any authorized wholesaler or dealer place of business. There will be no charge except for transportation, recharging and rental service. The 90 day warranty is in effect only if the battery is sold within six months (wet charged) from the manufacturer's shipping date on the battery (dry charged) 12 months.

Loss of time, inconvenience, loss of use of the vehicle or other consequential damages does not apply.

Some states do not allow the exclusion of limitations of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

B Pro-rata Period

Any battery which becomes unserviceable (not merely discharged) after 90 days of service, but before the expiration date of the pro-rata adjustment period, can be exchanged for a new battery on pro-rata adjustment basis. The pro-rata cost per month is determined by dividing the current suggested list price in effect by the service adjustment period. Charges to the original owner are based on the actual number of months of service delivered by the battery to be replaced.

C Free adjustment and pro-rata periods do not apply in the following cases. If the container, covers or terminals are broken, if battery has been opened, frozen or damaged due to neglect or abuse including fire, wreckage or explosion, if electrolyte other than as recommended by the factory has been used, if the manufacturer's code markings have been destroyed or if a battery is used of an electrical size smaller than the one specified by the vehicle manufacturer or used in applications for which they were not designed or batteries installed or charged in reverse. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

D How to obtain warranty performance

1. Return battery to any factory authorized wholesaler or dealer. If cannot be located, call company in city printed on label of battery. Cost of call will be reimbursed. Authorized factory wholesaler or dealer will make determination if battery has failed in normal service.

2. If battery is determined to be defective by authorized factory wholesaler or dealer, it will be adjusted as per paragraphs A and B as stated above.

3. Warranty and type number of battery will be indicated on page 1 of Battery Warranty certificate furnished with battery.

4. Determine date of purchase from month and year from date of warrant certificate or date on battery.

5. A portion of any one month is considered a whole month.

6. Certificate of Warranty or proof of purchase must be presented with battery to have claim honored.

All batteries warranted for 3 months in motive power service and 6 months in snowmobile service unless specified otherwise.

DANGER

Batteries produce explosive gases. Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space.

Always shield eyes when working near batteries.

ADJUSTMENT COST TABLE

Type	Passenger Cars & Trucks Thru One Ton		On Highway Vehicles Over 1 Ton, Two Way Radio Equipped Vehicles, Heavy Marine, Others		Type	Passenger Cars & Trucks Thru One Ton		On Highway Vehicles Over 1 Ton, Two Way Radio Equipped Vehicles, Heavy Marine, Others		Type	Passenger Cars & Trucks Thru One Ton		On Highway Vehicles Over 1 Ton, Two Way Radio Equipped Vehicles, Heavy Marine, Others	
	Month	Cost Per Mo.	Month	Cost Per Mo.		Month	Cost Per Mo.	Month	Cost Per Mo.		Month	Cost Per Mo.	Month	Cost Per Mo.
724MF	60	2.02	30	4.03	655MF	60	1.58	30	3.17	924	48	1.83	30	2.93
624MF, 624FMF	60	1.62	30	3.23	455	48	1.67	30	2.67	924T	48	2.10	30	3.37
424MF, 424FMF	48	1.69	30	2.70	458MF	48	1.94	30	3.10	927	48	2.14	30	3.43
324MF, 324FMF	36	2.00	18	4.00	662MF	60	1.62	30	3.23	931MF, 931PMF	—	—	30	4.70
524, 524F	60	1.65	30	3.30	721/24MF	60	1.72	30	3.43	1031MF, 1031PMF	—	—	30	5.13
424, 424F	48	1.69	30	2.70	722F/24FMF	60	1.72	30	3.43	932N	48	2.35	30	3.77
324, 324F	36	2.00	18	4.00	771/73/74MF	60	1.72	30	3.43	929HR	48	2.52	30	4.03
224	24	2.50	12	5.00	353	36	2.17	18	4.33	930H	48	2.35	30	3.77
774MF	60	2.02	30	4.03	220H	24	3.08	12	6.16	9135	48	3.69	30	5.90
674MF	60	1.72	30	3.43	222NL	24	3.08	12	6.16	9125	48	3.96	30	6.33
474MF	48	1.79	30	2.87	239	24	3.04	12	6.08	9095	48	3.48	30	5.57
374MF	36	2.14	18	4.28	301	36	1.80	18	3.61	9080	48	3.02	30	4.83
574	60	1.68	30	3.37	302L	36	1.94	18	3.89	93ET	48	2.27	30	3.63
474	48	1.79	30	2.87	302	36	1.94	18	3.89	93EH	48	2.17	30	3.47
374	36	2.14	18	4.28	402E	48	1.77	24	3.54	94EH	48	2.75	30	4.40
421MF	48	1.58	30	2.53	302N	36	1.97	18	3.94	907D	—	—	30	4.80
622FMF	60	1.40	30	2.80	319L	36	1.75	18	3.50	903D	—	—	30	7.93
422FMF	48	1.46	24	2.91	217HF	24	2.58	12	5.16	909D	—	—	30	9.43
322FMF	36	1.80	18	3.61	801	24	3.46	12	6.91	904D	—	—	30	7.47
522F	60	1.33	30	2.67	802	24	3.79	12	7.58	906D	—	—	30	9.43
422F	48	1.46	24	2.91	824A	12	12.33	6	24.66	708D	—	—	30	8.70
322F	36	1.80	18	3.61	8800MF	—	—	12	10.50	908D	—	—	30	9.27
222F	24	2.41	12	4.83	8520MF	—	—	12	9.50	908DMF	—	—	30	10.87
670MF	60	1.40	30	2.80	8085	—	—	12	8.75	601	48	1.56	24	3.12
671MF	60	1.40	30	2.80	8070	—	—	12	7.25	6TN	24	8.04	12	16.08
471MF	48	1.52	30	2.43	8T24	—	—	12	9.16	6HN	24	4.54	12	9.08
471	48	1.52	24	3.04	8T27	—	—	12	11.08	7G, 7GCA, 7GC	—	—	10	11.20
672MF	60	1.42	30	2.83	6AL	—	—	12	4.41	8G, 8GCA, 8GC	—	—	12	9.58
472MF	48	1.52	30	2.43	7AL	—	—	12	4.33	9G, 9GCA, 9GC	—	—	12	11.00
472	48	1.52	24	3.04	9AR, 9AL	—	—	12	4.66	813	—	—	24	7.95
372	36	1.89	18	3.78	9ARFP, 9ALFP	—	—	12	5.08	815	—	—	24	8.08
673MF	60	1.52	30	3.03	9ALM	—	—	12	5.25	817	—	—	24	9.08
473MF	48	1.73	30	2.77	10ALMF	—	—	12	4.91	819	—	—	24	10.49
426MF	48	1.60	30	2.57	11AR	—	—	12	5.25	821	—	—	24	11.87
627MF, 627FMF	60	1.87	30	3.73	901MF	60	1.25	30	2.50	823	—	—	24	12.95
427MF, 427FMF	48	2.06	24	4.12	901	48	1.60	30	2.57	825	—	—	24	13.91
527, 527F	60	1.75	30	3.50	902	—	—	30	2.80	8C11	—	—	12	13.08
427, 427F	48	1.94	24	3.87	903	—	—	30	3.47	8C6V	—	—	12	17.75
641MF	60	1.98	30	3.97	904MF, 904WMF	—	—	30	3.93	8C12	—	—	12	21.16
642MF	60	1.47	30	2.93	704	—	—	24	4.25	8L16	—	—	12	19.83
342	36	2.08	18	4.16	904, 904W	—	—	30	3.47	90SS	—	—	30	5.80
443	48	2.23	30	3.57	1004	48	2.35	30	3.77	EL-11-1MF	—	—	12	11.00
444	48	2.60	30	4.17	905D	—	—	30	4.27	EL-9-2N	—	—	12	10.00
449	48	3.27	30	5.23										
645MF	60	1.65	30	3.30										
445	48	1.71	30	2.73										
322NF	36	1.89	18	3.78										
446	48	1.73	30	2.77										
460	48	2.06	24	4.12										
403E	48	2.19	24	4.39										
429NF	48	1.89	24	3.79										
329NF	36	2.19	18	4.39										

ALL BATTERIES EXCEPT MAINTENANCE FREE TYPE ARE WARRANTED FOR 3 MONTHS IN MOTIVE POWER SERVICE AND 6 MONTHS IN SNOWMOBILE SERVICE UNLESS SPECIFIED OTHERWISE. ALL MAINTENANCE FREE TYPE BATTERIES ARE NOT WARRANTED IN MOTIVE POWER SERVICE.

DEPARTMENT OF PURCHASES
Number One Main St., Ft. Wayne, Ind. 46802

INVITATION

Conditional subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services for the Department as mentioned, with delivery to destination as above listed. Conditions shall include all charges for delivery, packing, etc. Answer your reply as indicated below.

Mail all replies and correspondence to Attn of Carol Offerle: 427-1101 DEPARTMENT OF PURCHASES
Room 940, Number One Main St., Ft. Wayne, Ind. 46802

REQUIRED FOR DELIVERY TO:

Department
or Division City Utilities Garage
1705 South Lafayette
Address Fort Wayne, Indiana 46803

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing
Time of Bids February 26, 1985 at 10:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 1444. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 19 on reverse hereof for details.
TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total
		Automotive Battery Requirements for the City of Fort Wayne through the end of February, 1986 (per the attached specifications: see page 11 of 18).		
AFFIRMATIVE ACTION: ON FILE <input checked="" type="checkbox"/> ATTACHED <input type="checkbox"/>				

Bid Bond required ☐ NO ☒ YES \$500.00 Performance Bond ☒ NO ☐ YES
See Instructions Item No. 13 on reverse side hereof.
Terms 0 % cash discount if paid within 30 days from delivery and acceptance of goods or completion of service.

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications appearing and at the prices as specified herein.

Delivery of any or all of the items or completion of services indicated shall be made within 10 days from receipt of order.

IMPORTANT

As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

By Robert M. Markon President
Address Fort Wayne, Ind.
Date 2/24/85



AUTOMOTIVE AND LIGHT TRUCK BATTERY SPECIFICATIONS

12 VOLT BATTERIES FOR DOMESTIC AND FOREIGN VEHICLES

SUPREME

FILLED

BCI Group Size	Stock Number	Part Number	Months Pro Rate Service Adjustment	Cold Cranking Amps	Reserve Capacity	Maximum Overall Dimensions			Approx. Shipping Weight/lbs. (Wet)
						Length	Width	Height	
22F	50-22-110-5	22FM-SPCW	66	410	70	9 ⁷ / ₁₆	6 ⁹ / ₁₆	8 ¹ / ₄	34
24	50-22-128-8	24M-SPCW	66	525	100	10 ³ / ₁₆	6 ¹³ / ₁₆	9	40
24F	50-22-140-7	24FM-SPCW	66	525	100	10 ⁵ / ₈	6 ¹³ / ₁₆	9	40
26	50-22-150-4	26M-SPCW	66	430	70	8 ³ / ₁₆	6 ¹³ / ₁₆	7 ³ / ₄	34
27	50-22-160-1	27M-SPCW	66	560	115	12	6 ¹³ / ₁₆	8 ¹⁵ / ₁₆	45
27F	50-22-170-9	27FM-SPCW	66	560	115	12 ⁷ / ₁₆	6 ¹³ / ₁₆	8 ¹⁵ / ₁₆	45
41	50-22-241-1	41M-SPCW	66	650	110	11 ¹ / ₈	6 ⁷ / ₈	6 ⁷ / ₈	40
45	50-22-265-9	45M-SPCW	66	410	70	9 ⁷ / ₁₆	5 ¹ / ₂	8 ⁷ / ₈	29
55	50-22-280-2	55M-SPCW	66	440	70	8 ⁵ / ₈	6 ¹ / ₁₆	8 ³ / ₈	30
58	50-22-300-0	58M-SPCW	66	425	80	9 ⁷ / ₁₆	7 ¹ / ₄	7	32
62	50-22-315-9	62M-SPCW	66	480	80	8 ¹⁵ / ₁₆	6 ⁷ / ₁₆	8 ⁷ / ₈	33
70/71	50-22-330-2	70/71M-SPCW	66	440	70	8 ³ / ₁₆	7 ¹ / ₁₆	7 ³ / ₄	33
74	50-22-350-7	74M-SPCW	66	525	100	10 ¹ / ₄	6 ³ / ₄	8 ⁵ / ₈	40

PRICE

41.39

41.3

EXTRALIFE 60

FILLED

24	50-12-109-7	24M-60CW	60	475	90	10 ³ / ₁₆	6 ¹³ / ₁₆	9	38
24F	50-12-115-1	24FM-60CW	60	475	90	10 ⁵ / ₈	6 ¹³ / ₁₆	9	38
70/71	50-12-135-6	70/71M-60CW	60	390	65	8 ³ / ₁₆	7 ¹ / ₁₆	7 ³ / ₄	33
74	50-12-148-8	74M-60CW	60	475	90	10 ¹ / ₄	6 ³ / ₄	8 ⁵ / ₈	38

39.8

39.8

EXTRALIFE 50

22F	50-16-001-7	22FM-50CW	50	350	60	9 ⁷ / ₁₆	6 ⁹ / ₁₆	8 ¹ / ₄	32
24	50-16-003-3	24M-50CW	50	425	80	10 ³ / ₁₆	6 ¹³ / ₁₆	9	37
24F	50-16-006-8	24FM-50CW	50	425	80	10 ⁵ / ₈	6 ¹³ / ₁₆	9	37
26	50-16-004-1	26M-50CW	50	350	60	8 ³ / ₁₆	6 ¹³ / ₁₆	7 ³ / ₄	31
42	50-16-007-6	42M-50CW	50	390	70	9 ⁵ / ₁₆	6 ⁷ / ₈	6 ⁷ / ₈	28
62	50-16-011-4	62M-50CW	50	380	60	8 ¹⁵ / ₁₆	6 ⁷ / ₁₆	8 ⁷ / ₈	31
70/71	50-16-010-6	70/71M-50CW	50	350	60	8 ³ / ₁₆	7 ¹ / ₁₆	7 ³ / ₄	31
74	50-16-014-9	74M-50CW	50	425	80	10 ¹ / ₄	6 ³ / ₄	8 ⁵ / ₈	36

VALULIFE 40

24	50-17-003-9	24M-40CW	40	340	50	10 ³ / ₁₆	6 ¹³ / ₁₆	9	33
24F	50-17-005-5	24FM-40CW	40	340	50	10 ⁵ / ₈	6 ¹³ / ₁₆	9	33
74	50-17-010-1	74M-40CW	40	340	50	10 ¹ / ₄	6 ³ / ₄	8 ⁵ / ₈	33

12 VOLT BATTERIES FOR LIGHT DUTY TRUCKS

SUPREME ATX

24	50-23-110-0	24ATXCW	66	505	120	10 ¹³ / ₁₆	6 ¹³ / ₁₆	9	46
24F	50-23-100-3	24FATXCW	66	505	120	10 ⁵ / ₈	6 ¹³ / ₁₆	9	46
27	50-23-125-9	27ATXCW	66	530	160	12	6 ¹³ / ₁₆	8 ¹⁵ / ₁₆	52
27F	50-23-135-6	27FATXCW	66	530	160	12 ⁷ / ₁₆	6 ¹³ / ₁₆	8 ¹⁵ / ₁₆	52
74	50-23-170-4	74ATXCW	66	505	120	10 ¹ / ₄	6 ³ / ₄	8 ³ / ₄	46

GROUP SUBSTITUTIONS FOR FIRESTONE BATTERIES (1)

GROUP SIZE	O.E. MANUFACTURER	MODEL YEARS	GROUP SIZE (1) SUBSTITUTE	AVAILABLE FIRESTONE BATTERIES
21/25	CHRYSLER	1979-84	28	Sup
54	FORD	1978-79	55	60
54	AMC	1978-84	55	50
56	FORD	1978-79	55	40
56	AMC	1978-84	55	
57	FORD	1978-84	58	
61	FORD	1980-84	55	
63	FORD	1980-84	62	
64	FORD	1980-84	62	
72	GM	1969-76	70	
75	GM	1982-84	74	
76	GM	1982	2-74's	
77	GM	1969-76	74	
78	GM	1983-84	2-74's	

(1) NOTE: GROUP SIZE SUBSTITUTIONS ARE RECOMMENDATIONS ONLY. THE SUBSTITUTE SIZE WILL NOT NECESSARILY FIT EVERY APPLICATION ON EVERY CAR. IN PARTICULAR, WATCH FOR PROBLEMS WITH:

1. Hood Clearance
2. Reverse Polarity. (Some substitute batteries have to be turned around so positive and negative terminals are in correct position.)
3. Changes in hold-down configurations.
4. O.E. cold cranking requirements. Check B.C.I. Battery Replacement Data Book (50-99-801-0) for O.E. cold crank requirements and make sure replacement battery equals or exceeds these specifications.

CRANKING PERFORMANCE

The discharge load in amperes which a new fully charged battery at 0°F (-17.8°C) can deliver for 30 seconds and maintain a voltage of 1.2 volts per cell or higher.

RESERVE CAPACITY

The number of minutes a new fully charged battery at 80°F (26.7°C) can be discharged at 25 amperes and maintain a voltage of 1.75 volts per cell or higher.

WARRANTY EXCEPTIONS

ALL PRO-RATA SERVICE ADJUSTMENT WARRANTIES INDICATED ON THE FRONT OF THIS SHEET APPLY TO BATTERY USE IN PASSENGER CARS (EXCEPT TAXICABS AND POLICE CARS), LIGHT COMMERCIAL VEHICLES, AND TRUCKS THROUGH ONE-TON CAPACITY... IF THE BATTERY IS USED IN ANY OTHER APPLICATION, FIRESTONE WILL WARRANTY THE BATTERY FOR 24 MONTHS PRO-RATA.



COMMERCIAL AND SPECIALTY BATTERY SPECIFICATIONS

(See back for Terminal Designs)

MARINE AND DEEP CYCLE BATTERIES

FILLED

BCI Group Size	Stock Number	Part Number	Months Pro-rata Service Adjustment	Cold Cranking Amps	Reserve Capacity	Maximum Overall Dimensions			Approx Shipping Weight/lbs (Wet)
						Length	Width	Height	
24	50-19-100-1	24M-4CW	24	390	90 @ 25 amps	11 ⁵ / ₁₆	6 ¹¹ / ₁₆	9 ¹ / ₂	37
24	50-19-103-6	24M-6CW	24	470	110 @ 25 amps	11 ⁵ / ₁₆	6 ¹¹ / ₁₆	9 ¹ / ₂	40
24	50-19-105-2	24DC-6CW	24	435	235 @ 15 amps	11 ⁵ / ₁₆	6 ¹¹ / ₁₆	9 ¹ / ₂	51
27	50-19-125-7	27DC-6CW	24	485	290 @ 15 amps	13 ³ / ₁₆	6 ¹¹ / ₁₆	9 ¹ / ₂	61

12 VOLT GARDEN TRACTOR & LAWN MOWER BATTERIES

U1	50-05-062-9	U1LCW	12	225	38	7 ³ / ₂	5 ³ / ₁₆	7 ¹ / ₂	19	<i>26.0</i>
U1R	50-05-056-4	U1RCW	12	225	38	7 ³ / ₂	5 ³ / ₁₆	7 ⁵ / ₁₆	19	<i>26.0</i>

12 VOLT COMMERCIAL & FARM TRACTOR BATTERIES

3ET	50-05-110-2	T-3ETCW	24	460	155	19 ⁵ / ₁₆	4 ⁵ / ₈	9 ¹¹ / ₁₆	62	<i>45.6</i>
4D	50-05-613-9	D-4DMCW	24	900	290	20 ¹¹ / ₁₆	8 ¹¹ / ₁₆	9 ⁷ / ₁₆	114	<i>94.7</i>
8D(3)	50-05-650-3	D-8DM-6CW	24	1000	440	20 ¹¹ / ₁₆	10 ⁵ / ₁₆	9 ⁷ / ₁₆	143	<i>101.2</i>
8D(1)	50-05-651-1	D-8DM-7CW	24	1000	440	20 ¹¹ / ₁₆	10 ⁵ / ₁₆	9 ⁷ / ₁₆	143	<i>101.2</i>
30H	50-05-291-5	TB-30HCW	24	580	165	13 ⁹ / ₁₆	6 ³ / ₁₆	9 ³ / ₁₆	61	<i>49.9</i>
31(2)	50-05-299-0	TB-31AMCW	24	625	160	13	6 ³ / ₂	9 ⁵ / ₁₆	56	<i>59.0</i>
31(3)	50-05-300-8	TB-31AMCW	24	625	160	13	6 ³ / ₂	9 ⁵ / ₁₆	56	<i>59.0</i>

(1) With side terminal stud (2) With studed posts (3) With S.A.E. type top posts

6 VOLT COMMERCIAL & FARM TRACTOR BATTERIES

1	50-05-212-5	TB-1HMCW	24	585	180	8 ⁵ / ₈	6 ⁷ / ₈	8 ⁷ / ₈	33	<i>33.6</i>
2	50-05-224-9	TB-2HMCW	24	625	235	10 ¹ / ₈	6 ¹³ / ₁₆	9 ⁵ / ₁₆	41	<i>39.0</i>
3	50-05-239-7	TB-3HMCW	24	675	205	11 ³ / ₄	6 ⁷ / ₈	9 ¹ / ₈	47	<i>40.0</i>
4	50-05-262-1	TB-4HAMCW	24	900	280	12 ⁵ / ₈	6 ³ / ₄	9 ³ / ₈	53	<i>43.1</i>
5D	50-05-626-0	D-5DMCW	24	830	325	13 ⁵ / ₁₆	7	9 ⁷ / ₁₆	63	<i>52.4</i>
7D	50-05-638-4	D-7DMCW	24	985	440	16 ¹ / ₈	7	9 ¹ / ₁₆	70	<i>59.9</i>
22NF	50-05-268-0	TB-22NFCW	24	265	60	9 ⁷ / ₁₆	5 ¹ / ₂	8 ⁵ / ₁₆	29	<i>39.6</i>

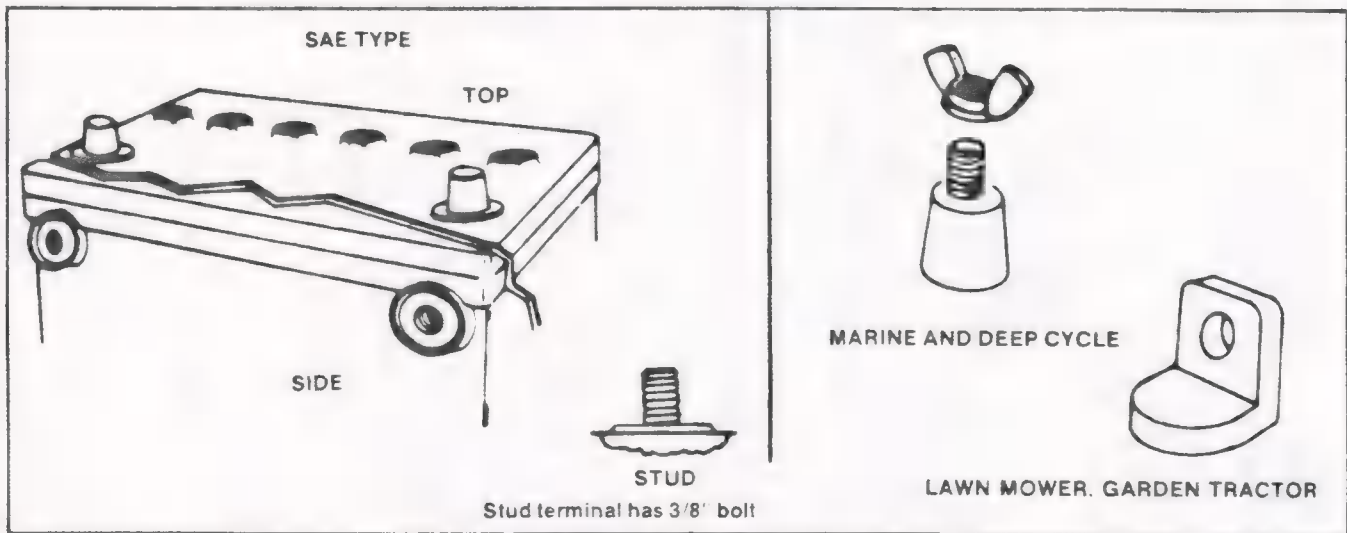
CRANKING PERFORMANCE

The discharge load in amperes which a new fully charged battery at 0°F (−17.8°C) can deliver for 30 seconds and maintain a voltage of 1.2 volts per cell or higher.

RESERVE CAPACITY

The number of minutes a new fully charged battery at 80°F (26.7°C) can be discharged at 25 amperes and maintain a voltage of 1.75 volts per cell or higher.

TERMINAL DESIGNS



DEPARTMENT OF PURCHASES
Number One Main St., Ft. Wayne, Ind. 46802
INVITATION

Conditions, subject to the conditions on the reverse hereof, are extended on the following list of materials, supplies, equipment or services for the Department as indicated, with delivery to destination as shown below. Conditions shall include all charges for delivery, handling, etc. Answer your reply as indicated below.

*Mail all replies and
extraneous material to Attn of Carol Offerle: 427-1101 DEPARTMENT OF PURCHASES

Room 940, Number One Main St., Ft. Wayne, Ind. 46802

REQUIRED FOR DELIVERY TO:

Department
or Division City Utilities Garage

1705 South Lafayette

Address Fort Wayne, Indiana 46803

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing

Time of Bid February 26, 1985 at 10:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 1444. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 13 on reverse hereof for details.

TAX EXEMPT (Unless otherwise indicated)

Page 1 of 3

Ref. No. 732

Date 2/1/85

Date wanted 2/26/85

Fund
Appropriation No.

Quantity	Unit	Materials, Supplies, Equipment or Service	Unit Price	Total Amount
		Automotive Battery Requirements for the City of Fort Wayne through the end of February, 1986 (per the attached specifications: see page 11 of 18).		
AFFIRMATIVE ACTION: ON FILE <input checked="" type="checkbox"/> ATTACHED <input checked="" type="checkbox"/>				

Bid Bond required ☐ NO ☒ YES \$500.00 Performance Bond ☒ YES ☐ NO

Terms 2% cash discount if paid within 10 days from delivery and acceptance of goods or completion of services

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applies and at the time as specified hereon.

Delivery of any or all of the items or completion of services indicated shall be made within 3 days from receipt of order

IMPORTANT

As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

See Form

CROWN BATTERY MFG. COMPANY

James A. White Regional Sales Manager

P. O. Box 511, 1445 Majestic Drive

Fremont, OH 43420

2/18/85

CROWN

BATTERIES

FEBRUARY 18, 1985

CROWN BATTERY MFG. COMPANY

1445 Majestic Drive - Fremont, Ohio 43420

PART NO.	BATTERY TYPE	
12 V. DOMESTIC CARS		
1-1003	521	\$ 30.50
1-1005	522F	30.50
1-1010	322F	24.15
1-1015	222F	22.00
1-1020	372	25.00
1-1025	524	33.05
1-1030	424	29.65
1-1035	324	25.00
1-1040	224	22.85
1-1045	524F	33.05
1-1050	424F	29.65
1-1055	324F	25.00
1-1060	224F	22.85
1-1065	574	33.90
1-1070	474	30.35
1-1075	374	25.40
1-1080	274	24.75
1-1085	527	41.55
1-1090	427	33.90
1-1100	527F	41.55
1-1105	427F	33.90
1-1115	570	30.75
1-1120	370	24.75
1-1125	571	30.50
1-1130	371	24.55
1-1135	462	33.90
1-1140	458	34.65
1-1150	455	30.50
1-1155	329N	31.45
1-1160	333E	32.20
1-1165	253	28.20
1-1170	360	32.20
12V. FOREIGN CARS		
1-1175	541	41.50
1-1180	542	33.05
1-1185	342	27.10
1-1190	445	25.75
1-1195	449	52.30
1-1200	448	48.35
6 V. DOMESTIC CARS		
1-1205	301	23.40
1-1210	302	28.80
1-1215	302E	30.50
6 V. FOREIGN CARS		
1-1220	217	23.90
1-1225	319	23.90
HEAVY DUTY COMMERCIAL & DIESELS		
1-1240	904D	72.60
1-1245	905D	40.65
1-1250	907D	49.75
1-1255A	908D A/T	84.85
1-1255B	908D B/T	89.85
1-1257	912	65.35
1-1260	924	30.50
1-1265	924F	30.50
1-1270	927	33.90
1-1275	927F	33.90
1-1280	904H	33.90

PART NO.	BATTERY TYPE	
1-1285	930H	\$ 42.00
1-1290A	931DA	49.85
1-1290S	931DS	49.85
1-1291A	931A	45.80
1-1291S	931S	45.80
FARM VEHICLES		
1-1305	501	27.35
1-1315	502	30.60
1-1320	422NF	24.55
1-1345	4TF	50.05
1-1350	4T12	58.25
1-1355	43ET	39.85
1-1360	4EH3	38.15
1-1370	4DL	63.90
1-1375	48V1	30.50
1-1380	48V2	33.90
RECREATIONAL—MARINE		
1-1400	601	22.00
1-1403	602	22.00
1-1406	602M	25.85
1-1409	611	20.00
1-1412	633	27.30
1-1415	600	29.60
1-1418	603	31.45
1-1421	604	37.05
1-1424	624T	39.55
1-1427	627T	43.85
GOLF CART, FLOOR SCRUBBER, SWEEPER		
1-1430A	701 A/T	39.00
1-1430C	701 C/T	39.00
1-1435A	702L A/T	43.70
1-1435C	702L C/T	43.70
1-1440A	702H A/T	46.65
1-1440C	702H C/T	46.65
1-1445A	703 A/T	54.00
1-1445C	703 C/T	54.00
1-1445F	703 F/T	54.00
1-1450A	704 A/T	67.50
1-1450C	704 C/T	67.50
1-1455A	705 A/T	60.25
1-1455F	705 F/T	60.25
1-1460A	706 F/T	78.70
1-1465A	711 A/T	76.35
1-1470A	712 A/T	81.20
1-1475A	713 A/T	191.70

James A. White

CROWN BATTERY

MANUFACTURING COMPANY

1445 Majestic Dr. ■ P.O. Box 511 • Fremont, Ohio 43420 ■ PH. 419-334-3872

REVISED JUNK ALLOWANCES

Effective March 11, 1983

Garden Tractor and Aircraft	\$.50
12-Volt Automotive & 6-Volt Group 1 & 2	1.50
Groups 3, 4, 5D, 3ET, EH3, 30SH, 4EH4, GC, 4TF, & 703 . . .	2.00
12BJ, 4DL, 4T12, 7D, 704, & 712	3.00
4D	4.00
8D	6.00

February 18, 1985

AUTOMOTIVE BATTERY SPECIFICATIONS

BCI GROUP	OUR GROUP NO.	SUGGESTED WARRANTY	PLATES PER CELL	RESERVE CAPACITY MINUTES	CRANKING PERFORMANCE AMPS @ 0°F	ENGINE CID UP TO	DIMENSIONS		
							LENGTH	WIDTH	HEIGHT
12 VOLT AUTOMOTIVE TYPE									
21	521	60	9	90	460	460	8-3/16	6-13/16	8-3/4
22F	522F	60	11	110	430	430	9-1/2	6-7/8	8-1/4
	322F	40	9	85	390	390	9-1/2	6-7/8	8-1/4
	222F	30	7	65	330	330	9-1/2	6-7/8	8-1/4
24 (24C)	524	60	13	150	620	620	10-1/4	6-3/4	8-7/8
	424	50	11	120	500	500	10-1/4	6-3/4	8-7/8
	324	40	9	105	410	410	10-1/4	6-3/4	8-7/8
	224	30	7	85	360	360	10-1/4	6-3/4	8-7/8
24F	524F	60	13	150	620	620	10-3/4	6-3/4	8-7/8
	424F	50	11	120	500	500	10-3/4	6-3/4	8-7/8
	324F	40	9	105	410	410	10-3/4	6-3/4	8-7/8
	224F	30	7	85	360	360	10-3/4	6-3/4	8-7/8
27	527	60	15	175	675	675	12	6-3/4	8-7/8
27C	427	50	11	150	500	500	12	6-3/4	8-7/8
27F	527F	60	15	175	675	675	12-3/8	6-3/4	8-7/8
	427F	50	11	150	500	500	12-3/8	6-3/4	8-7/8
55	455	50	11	85	425	425	8-5/8	6-1/16	8-3/8
62	462	50	13	90	480	480	8-15/16	6-7/16	8-7/8
71	571	60	9	97	425	425	8-1/2	7-1/4	8-1/2
	371	40	9	80	400	400	8-1/2	7-1/4	8-1/2
72	372	40	9	85	350	350	9-1/16	7	8-1/4
74	574	60	13	150	620	620	10-1/4	7	8-3/4
	474	50	11	120	500	500	10-1/4	7	8-3/4
	374	40	9	105	410	410	10-1/4	7	8-3/4
29NF	329N	36	11	110	430	430	12-1/2	5-1/2	8-7/8
3EE	333E	36	9	80	375	375	19-1/4	4-1/4	8-7/8
53K	253	24	7	56	330	330	13	4-1/2	8-1/4
58	458	50	13	70	410	410	9-7/16	7-1/4	7
60	360	36	9	90	390	390	13	6-1/4	8-7/8
41	541	60	19	90	640	640	11-9/16	6-7/8	6-7/8
42	542	60	13	85	430	430	9-1/2	6-3/4	6-3/4
42	342	36	11	70	360	360	9-1/2	6-3/4	6-3/4
45	445	50	13	70	375	375	9-7/16	5-1/2	8-15/16
48	448	50	15	110	510	510	11-15/16	6-7/8	7-9/16
49	449	50	21	155	620	620	15	6-7/8	7-9/16
6 VOLT AUTOMOTIVE TYPE									
1	301	36	15	180	525	525	9	7-1/8	9-1/8
2	302	36	17	190	540	540	10-1/4	7-1/8	9-1/8
2E	302E	36	17	190	540	540	19-1/4	4	9-1/8
17HF	217	24	11	97	390	390	7-5/16	6-3/4	8-7/8
19L	319	36	13	130	500	500	8-3/8	6-3/4	7-1/2
FARM TRACTOR									
	501*	36	17	190	540	540	9	7-1/8	9-1/8
1	301*	36	15	180	510	510	9	7-1/8	9-1/8
2	502*	36	19	235	585	585	10-1/4	7-1/8	9-1/8
3EH	4EH3*	24	21	310	825	825	19-1/4	4-1/4	9-3/4
22NF	422NF•	24	9	75	275	275	9-7/16	5-1/2	8-1/2
4DL	4DL•	24	23	280	720	720	20	8-1/8	7-7/8
17TF	4TF•	24	17	175	490	490	17-1/16	6-15/16	7-7/8
16TF	4T12•	24	13	245	615	615	15-7/8	7-1/16	11-1/8
3ET	43ET•	24	11	145	475	475	19-1/4	4-1/4	9-3/4
V1	48V1†	24	11	97	390	390	8-7/8	6-3/4	9
V2	48V2†	24	15	185	510	510	10-3/8	7	9
* - 6 Volt • - 12 Volt † - 8 Volt									

1-84

* - 6 Volt

• - 12 Volt

† - 8 Volt

HEAVY DUTY COMMERCIAL & MISCELLANEOUS TYPES

BCI GROUP	OUR GROUP NO.	SUGGESTED WARRANTY	VOLT-AGE	PLATES PER CELL	RESERVE CAPACITY MINUTES	REFERENCE VALUE IN A.H.	CRANKING PERFORMANCE AMPS @ 0°F	DIMENSIONS		
								LENGTH	WIDTH	HEIGHT
HEAVY DUTY COMMERCIAL & DIESEL TYPE										
1	501	24	6	17	190	120	540	9	7-1/8	9-1/8
2	502	24	6	19	210	130	560	10-1/4	7-1/8	9-1/8
4	904H	24	6	23	290	175	775	12-3/8	7	9-1/4
24	924	24	12	11	100	72	430	10-1/4	6-3/4	8-7/8
24F	924F	24	12	11	100	72	430	10-3/4	6-3/4	8-7/8
27	927	24	12	11	130	80	475	12	6-3/4	8-7/8
27F	927F	24	12	11	130	80	475	12-3/8	6-3/4	8-7/8
30HR	930H	24	12	13	150	100	590	13-1/2	6-3/4	9
31	931-S/A	24	12	13	190	120	650	13.093	7.016	9.530
12BJ	912	24	12	15	180	110	575	17-7/8	7-1/8	9-1/4
5D	905D	24	6	25	330	190	790	13-1/2	7	9-1/4
7D	907D	24	6	29	430	210	975	15-7/8	7	9-1/4
4D	904D	24	12	21	280	160	800	21-1/4	8-3/4	9-3/4
8D	908D	24	12	29	485	250	1000	21-1/4	11-1/8	10-3/4
8B	908BUS	24	12	29	485	250	1000	21-1/4	11-1/8	10-3/4
RECREATIONAL—MARINE-MOTORCYCLE										
U1R	601	24	12	9	45	—	275	7-3/4	5-1/8	7-5/16
U1	602	24	12	9	45	—	275	7-3/4	5-1/8	7-5/16
	602M	12	12	9	45	—	255	7-3/4	5-1/8	7-5/16
MAR	600	40	12	9	110	70	410	10-1/4	6-3/4	8-7/8
	603	50	12	11	125	80	480	10-3/4	6-3/4	8-7/8
	604	60	12	13	145	90	550	10-3/4	6-3/4	8-7/8
DEEP CYCLE	624T	36	12	11	2 5 amps 33.2 hrs	10 amps 7 4 hrs	20 amps 3 5 hrs	11-3/8	6-3/4	9-3/4
	627T	36	12	13	2 5 amps 39 6 hrs	10 amps 9 1 hrs	20 amps 4 3 hrs	13-3/16	6-3/4	9-3/4
	633	12	12	11	50		270	9-3/4	5-1/8	7-1/4

BCI GROUP	OUR GROUP NO.	SUGGESTED WARRANTY	VOLT-AGE	PLATES PER CELL	MINUTES OF DISCHARGE	REF. VAL. IN A.H.	WET WT. (LBS.)	DIMENSIONS		
								LENGTH	WIDTH	HEIGHT
GOLF CART—FLOOR SCRUBBER AND SWEEPER BATTERIES										
GC2	701	12	6	19	75 amps 90 min.	190	60	10-1/4	7-1/8	10-1/2
	702L	12	6	19	75 amps 110 min.	220	71	10-1/4	7-1/8	10-1/2
GC2H	702H	12	6	17	75 amps 110 min.	220	71	10-1/4	7-1/8	11-1/2
	703	12	6	19	75 amps 115 min.	225	77	11-5/8	7	11
	704	12	6	19	75 amps 166 min.	305	109	12-1/4	7	14-1/4
	705	12	6	19	75 amps 125 min.	245	89	11-3/4	7	12
	706	12	6	17	75 amps 164 min.	345	112	11-3/4	7	16-1/8
	711	12	12	11	25 amps 215 min.	125	94	13-1/2	6-3/4	11-5/8
	712	12	12	11	35 amps 200 min.	170	131	15-3/8	7	14-1/8
	713	12	12	19	100 amps 160 min.	570	324	20-3/8	10-7/8	17-1/2

LIMITED WARRANTY AND ADJUSTMENT POLICY

We build our batteries for a much longer useful starting life. Thicker plates made from top quality oxide, superior heavy duty separators, and close product supervision make our batteries an outstanding American Product.

... BUT THE BEST BATTERY CAN BECOME DISCHARGED AT NO FAULT OF THE BATTERY ... AND A STORAGE BATTERY SHOULD NOT BE REPLACED IF SIMPLY DISCHARGED.

One of the prime advantages of the storage battery is that IT CAN BE SATISFACTORILY RESTORED TO GOOD SERVICE BY RECHARGING when it may become discharged. You render a real service to the product and your customer when a simply discharged battery is properly handled. The cost is usually much less and the car owner will be better pleased with the product and your service.

1. All of Our Batteries are warranted to be free from defects in material and workmanship. Should a defect become apparent within 120 days the battery will be replaced or repaired at the manufacturer's option free of charge except for cost of transportation of the battery. After 120 days, the battery will be adjusted on a pro rata basis.
2. The adjustment pro rata amount may be found by dividing the current list price of the battery by the number of months in the warranty period, then multiplying by the number of months the customer has had the battery.
3. The warranty does not apply to batteries that: are only discharged, have broken containers, covers, or terminals, have been frozen, have been overcharged or sulphated, have foreign material or additives put in the electrolyte, or when evidence of neglect or abuse is present.

DEPARTMENT OF PURCHASES
 Number One Main St., Ft. Wayne, Ind. 46802
INVITATION

Page 1 of 3

Ref. No. 732

Date 2/1/85

Date wanted 2/26/85

Fund
 Appropriation No. _____

Conditions subject to the conditions on the reverse hereof, are presented on the following list of materials, supplies, equipment or services for the Department as mentioned with delivery to destination as shown below. Conditions shall include all charges for delivery, packing, etc. Address your reply as indicated below.

*Mail all replies and correspondence to: Carol Offerle: 427-1101 DEPARTMENT OF PURCHASES

Room 940, Number One Main St., Ft. Wayne, Ind. 46802

REQUIRED FOR DELIVERY TO:

Department
 or Division City Utilities Garage

1705 South Lafayette

Address Fort Wayne, Indiana 46803

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing
 Time of Bid: February 26, 1985 at 10:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 3444. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 10 on reverse hereof for details.

TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total Amount
		Automotive Battery Requirements for the City of Fort Wayne through the end of February, 1986 (per the attached specifications: see page 11 of 18).		
AFFIRMATIVE ACTION: ON FILE _____ ATTACHED _____				

Bid Bond required ☐ NO ☒ YES \$500.00 Performance Bond ☒ YES ☐ NO
See Instructions Item No. 10 on reverse side hereof.
 Terms _____ % cash discount if paid within _____ days from delivery and acceptance of goods or completion of services

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or services mentioned upon which prices are quoted, in accordance with the specifications applying and at the prices as opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within _____ days from receipt of order.

IMPORTANT

As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

By _____

Piqua Battery, Inc.

 Acct. Exec.

609 Spring Street

Piqua, Ohio

January 1, 1984

PRO RATA ADJUSTMENT INFORMATION AND COST TABLE

FULL WARRANTY For 90 days from the date of purchase, Piqua Battery or authorized dealer shall replace any "Cranker" type battery or Piqua type battery to original purchaser without cost if an electrical failure occurs in the battery due to defect in material or workmanship; and testing by Piqua Battery determines the battery will not hold a charge.

LIMITED WARRANTY After 90 days and for the remainder of the designated warranty months, should any "Cranker" type battery or Piqua type battery fail, (not merely discharged) the battery may be returned by the original owner to Piqua Battery or authorized dealer for replacement upon presentation of the sales receipt. The original owner will be charged only for the months of ownership. The cost per month shall be in accordance with schedule listed herein.

The owners total cost is the monthly cost multiplied by the number of months elapsed since the original purchase date.

The full warranty and limited warranty does not apply to batteries which have been damaged, overcharged, frozen, transferred to another vehicle, or misused in any way.

PIQUA BATTERY, INC.
Piqua, Ohio 45350
(513) 773-3652

Part Number	1	2	Part Number	1	2
21-37	1.48	2.27	4D-80	5.55	4.11
22NF-25	1.83	2.81	8D-98	6.71	4.99
22F-39	.77	1.18	8DB	7.25	5.39
22F-31	.82	1.26	3ET-44	2.79	2.15
22F-21	.94	1.45	4DLT-76	4.87	3.75
24-47	.91	1.40	16TF-64	4.97	3.82
24-39	.97	1.50	17TF-49	3.43	2.64
24-32	1.15	1.76	31-70	2.22	1.78
24-25	2.00	3.07	31-70S	2.32	1.78
24F-47	.91	1.40	C31-63	2.45	1.84
24F-39	.97	1.50	C31-63S	2.45	1.84
24F-32	1.15	1.76	29H-63	2.25	1.73
24F-25	2.00	3.07	31-63S	2.25	1.73
27-56	1.05	1.61	29H-51	3.12	2.34
27-49	1.16	1.78	31-51S	3.12	2.34
27F-56	1.05	1.61	U1-20L		2.90
27F-49	1.16	1.78	U1-20R		2.90
28NF-37	1.03	1.58	U1-16L		2.87
41-53	1.31	2.01	LM-24R		4.45
42-33	1.33	2.05	LM-5L		6.95
42F-35	1.16	1.78	1-52	.87	.67
43-40	2.12	3.27	2-60	.99	.76
45-43	1.49	2.29	3-65	2.48	1.91
45-27	1.58	2.43	4-98	1.61	1.24
48-44	1.85	2.85	4-78	1.71	1.28
49-61	1.87	2.87	4-65	2.39	1.84
53-29	2.66	4.08	5D-83	3.40	2.66
55-38	1.91	2.94	7D-88	3.54	2.73
56-45	1.13	1.74	3EH-83	2.86	2.20
56-37	1.40	2.16	4EH-88	3.02	2.33
58-43	1.11	1.71	EP-2-92		3.03
60-39	1.46	2.25	EP-2-106		2.14
62-40	1.71	2.63	EP-U1		7.59
3EE-33	1.47	2.27	EP-22NP		8.96
8V1-11			EP-24		3.75
8V2-47			EP-27		3.20
71-45	.92	1.42	1-43	1.55	2.39
71-39	1.05	.81	2L-40	2.84	4.37
71-33	1.37	2.11	2N-N3	4.37	6.73
74-50	1.00	1.53	2E-49	1.95	3.00
74-39	1.01	1.56	19L-40	1.46	2.25
74-29	1.48	2.27	24M-50	1.41	2.18
30H-46	3.08	2.37	24M-41	1.71	2.61

Column 1 -- Non-Commercial passenger cars & light trucks
Column 2 -- Commercial passenger cars, vans, trucks and all other applications

DCI GROUP SIZE	BATTERY PART NUMBER	BATTERY WARRANTY MONTHS	ELECTRICAL VALUES		PLATES PER CELL	OVERALL DIMENSIONS			APPROX. SHIPPING WEIGHT
			Cold Cranking Amperes @ 0°F	Reserve Capacity Minutes @ 80°F		Length	Width	Height	
AUTOMOTIVE AND COMMERCIAL - 12 VOLT									
21	21-37	36	452	76	10	8	6 13/16	8 13/16	33
22NF	22NF-25	24	250	52	9	9 7/16	5 1/2	8 13/16	31
22F	22F-39	60	390	95	11	9 13/32	6 25/32	8 3/32	36
	22F-31	48	330	75	9	9 13/32	6 25/32	8 3/32	34
	22F-21	36	315	63	9	9 13/32	6 25/32	8 3/32	32
24	24-47	60	500	135	13	10 7/32	6 25/32	8 19/32	45
	24-39	48	410	100	11	10 7/32	6 25/32	8 19/32	41
	24-32	36	335	76	9	10 7/32	6 25/32	8 19/32	37
	24-25	18	265	53	7	10 7/32	6 25/32	8 19/32	35
24F	24F-47	60	500	135	13	10 23/32	6 25/32	8 19/32	45
	24F-39	48	410	100	11	10 23/32	6 25/32	8 19/32	41
	24F-32	36	335	76	9	10 23/32	6 25/32	8 19/32	37
	24F-25	18	265	53	7	10 23/32	6 25/32	8 19/32	35
27	27-58	60	565	140	15	12	6 25/32	8 19/32	51
	27-49	48	490	118	13	12	6 25/32	8 19/32	48
27F	27F-58	60	565	140	15	12 15/32	6 25/32	8 19/32	51
	27F-49	48	490	118	13	12 15/32	6 25/32	8 19/32	48
29NF	29NF-37	48	422	100	13	13	5 1/2	8 11/16	41
41	41-53	48	530	92	15	11 9/16	6 7/8	6 7/8	36
42	42-33	36	325	76	11	9 5/8	6 27/32	6 3/4	31
42F	42F-35*	48	355	93	13	9 13/16	6 7/8	7 1/4	35
43	43-40	36	410	120	13	13 1/8	6 15/16	8	49
45	45-43	36	425	84	13	9 13/32	5 1/2	9	36
	45-27	30	330	65	10	9 13/32	5 1/2	8 15/16	31
48	48-44	42	440	84	13	11 5/16	6 7/8	7 7/16	35
49	49-61	48	610	125	18	14 1/2	6 7/8	7 1/2	46
53	53-29	18	325	76	9	13	4 23/32	8 5/32	35
55	55-38	30	400	76	11	8 1/2	6	8 3/8	33
56	56-45	48	505	86	13	10	6 1/64	8 5/16	36
	56-37	36	375	70	11	10	6 1/64	8 5/16	33
58	58-43	48	425	76	12	9 7/16	7 1/4	7	31
60	60-39	36	390	109	13	13 1/32	6 15/64	8 19/32	47
62	62-40	36	400	76	11	8 15/16	6 3/8	8 13/16	32
3EE	3EE-33	36	375	100	11	19 9/32	4 9/32	9 3/4	49
AUTOMOTIVE AND COMMERCIAL 12 VOLT (SIDE TERMINAL)									
71	71-45	60	452	84	10	8	7 1/4	7 13/16	32
	71-39	48	394	80	9	8	7 1/4	7 13/16	30
	71-33	36	330	63	8	8	7 1/4	7 13/16	27
74	74-50	60	505	135	13	10 1/4	7	8 7/16	45
	74-39	48	410	102	11	10 1/4	7	8 7/16	41
	74-29	30	337	75	9	10 1/4	7	8 7/16	37
COMMERCIAL - 6 VOLT									
1	1-52	48	545	190	17	8 15/16	6 3/4	8 7/8	37
2	2-80	48	650	237	19	10 1/4	6 7/8	9 1/4	44
3	3-65	24	660	250	21	11 1/2	7	9 1/4	49
4	4-98	42	975	420	33	12 5/8	7	9 5/16	64
	4-78	36	780	255	23	12 5/8	7	9 5/16	57
	4-65	24	650	240	19	12 5/8	7	9 5/16	53
5D	5D-83	24	830	340	25	13 1/2	7 1/8	9 1/4	61
7D	7D-88	24	920	420	29	16 1/4	7 1/8	9 1/4	71
3EH	3EH-83	24	840	338	25	19 9/32	4 9/32	9 3/4	59
4EH	4EH-88	24	880	420	29	19 9/32	5	9 25/32	65
* "L" Terminal									

BCI GROUP SIZE	BATTERY PART NUMBER	BATTERY WARRANTY MONTHS	ELECTRICAL VALUES		PLATES PER CELL	OVERALL DIMENSIONS			APPROX. SHIPPING WEIGHT
			Cold Cranking Amperes @ 0° F	Reserve Capacity Minutes @ 80° F		Length	Width	Height	
AUTOMOTIVE TYPES - 6 VOLT									
1	1-43	24	430	140	13	8 59/64	6 53/64	8 25/32	32
2L	2L-40	18	400	135	13	10 1/4	7	7 13/32	38
2N	2N-43	18	435	140	15	10	5 1/2	9	34
2E	2E-49	24	490	160	15	19 3/8	4	8 7/8	28
19L	19L-40	24	420	120	13	8 7/32	6 43/64	7 13/32	28
TRUCK, TRACTOR, BUS AND DIESEL - 12 VOLT									
30H	30H-46	24	460	145	13	13 1/2	6 3/4	9 1/8	62
4D	4D-80	24	850	312	23	20 3/4	8 3/4	9 5/8	116
8D	8D-98	24	1030	400	29	20 3/4	11	9 25/32	146
4B	8DB**	24	1000	435	29	22 7/8	11	9 43/64	148
3ET	3ET-44	24	445	120	13	19 5/16	4 5/16	9 13/16	56
4DLT	4DLT-76	24	754	290	25	19 7/8	8 1/8	7 7/8	94
16TF	16TF-64	24	640	230	15	16 17/32	7 3/32	11 13/64	98
17TF	17TF-49	24	410	125	13	17	6 7/8	8	58
31	31-70	42	700	170	17	13	6 13/16	9 13/32	59
	31-70S**	42	700	170	17	13	6 13/16	9 13/32	59
	C31-63	36	625	160	15	13	6 13/16	9 13/32	56
	C31-63S**	36	625	160	15	13	6 13/16	9 13/32	56
	29H-63	36	650	165	16	13	6 13/16	9 13/32	56
	31-63S**	36	650	165	16	13	6 13/16	9 13/32	56
	29H-51	24	525	135	13	13	6 13/16	9 13/32	52
	31-51S**	24	525	135	13	13	6 13/16	9 13/32	52
GARDEN TRACTOR AND LIGHT UTILITY - 12 VOLT									
U1	U1-20L*	12	235	40	9	7 3/4	5 1/8	7 5/32	21
	U1-20R*	12	235	40	9	7 3/4	5 1/8	7 5/32	21
	U1-16L*	12	185	30	7	7 3/4	5 1/8	7 5/32	20
U2	LM-24R	12	246	41	11	9 3/4	5 1/8	7 3/8	30
	LM-5L*	6	158	23	5	6 1/8	5	7 1/4	17
MARINE SERVICE - 12 VOLT									
24	24M-50	42	505	120	13	10 1/4	6 25/32	9 7/8	47
	24M-41	30	410	100	11	10 1/4	6 25/32	9 7/8	43
SPECIAL APPLICATION - 8 VOLT									
1	8V1-11	3	Special 8 volt		11	8 7/8	6 3/4	8 5/8	37
2	8V2-47	3	Special 8 volt		15	10 3/8	6 13/16	8 15/16	43
GOVERNMENT TYPES - 12 VOLT									
	6TN	12	Special 12 volt		23	11 1/8	10 5/8	9 1/16	70
	2HN	12	Special 12 volt		11	10 1/4	5 5/16	9 1/16	35
BCI GROUP SIZE	BATTERY PART NUMBER	BATTERY WARRANTY MONTHS	Voltage	75 Amp. Minutes @ 80° F	PLATES PER CELL	Length	Width	Height	APPROX. SHIPPING WEIGHT
ELECTRIC POWER - DEEP CYCLE									
GC2	EP2-92	24	6	92	19	10 3/8	7 3/16	11 11/32	61
GC2H	EP2-106	36	6	106	19	10 3/8	7 3/16	11 11/32	65
U1	EP-U1*	6	12	16	9	8 1/4	5 1/8	7 1/8	22
22NF	EP-22NF	6	12	22	11	9 7/16	5 15/32	8 13/16	32
24	EP-24	18	12	40	13	10 1/4	6 3/16	8 7/8	48
27	EP-27	24	12	46	15	12 1/16	6 3/16	8 7/8	55
* "L" Terminal ** Stud Terminal									

7012

D-85-05-24

DIGEST SHEET

TITLE OF ORDINANCE: SPECIAL

DEPARTMENT REQUESTING ORDINANCE: PURCHASING

SYNOPSIS OF ORDINANCE: An ordinance approving the awarding of a bid with respect to the purchase of automotive batteries for the City Utilities Garage.

EFFECT OF PASSAGE: Maintenance of fleet vehicles.

EFFECT OF NON-PASSAGE: No maintenance or repair of fleet vehicles.

MONEY INVOLVED (Direct costs, Expenditures, Savings):
Crown Battery - \$10,000.00 (approx. for one year)
~~\$12,432.00.~~

ASSIGNED TO COMMITTEE (President):

BILL NO. S-85-05-24

REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON CITY UTILITIES TO WHOM WAS

REFERRED AN (ORDINANCE) (~~RESOLUTION~~) approving City Utilities

Purchase Order Number A-44377, by the City of Fort Wayne by and through

its Department of Purchasing and Crown Battery, for the City Utilities

Garage

HAVE HAD SAID (ORDINANCE) (~~RESOLUTION~~) UNDER CONSIDERATION AND BEG

LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE)

(~~RESOLUTION~~)

YES

NO

Thomas C. Henry
THOMAS C. HENRY
CHAIRMAN

Janet G. Bradbury
JANET G. BRADBURY
VICE CHAIRWOMAN

Donald J. Schmidt
DONALD J. SCHMIDT

James S. Stier
JAMES S. STIER

Charles B. Redd
CHARLES B. REDD

CONCURRED IN 5-28-85

SANDRA E. KENNEDY
CITY CLERK